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Development of Basic Data & Knowledge Regarding Organic Removal Capabilities of Commercially Available Home Water Treatment Units Utilizing Activated Carbon: Phase 2 - Supplemental Data

Gulf South Research Inst, New Orleans, LA

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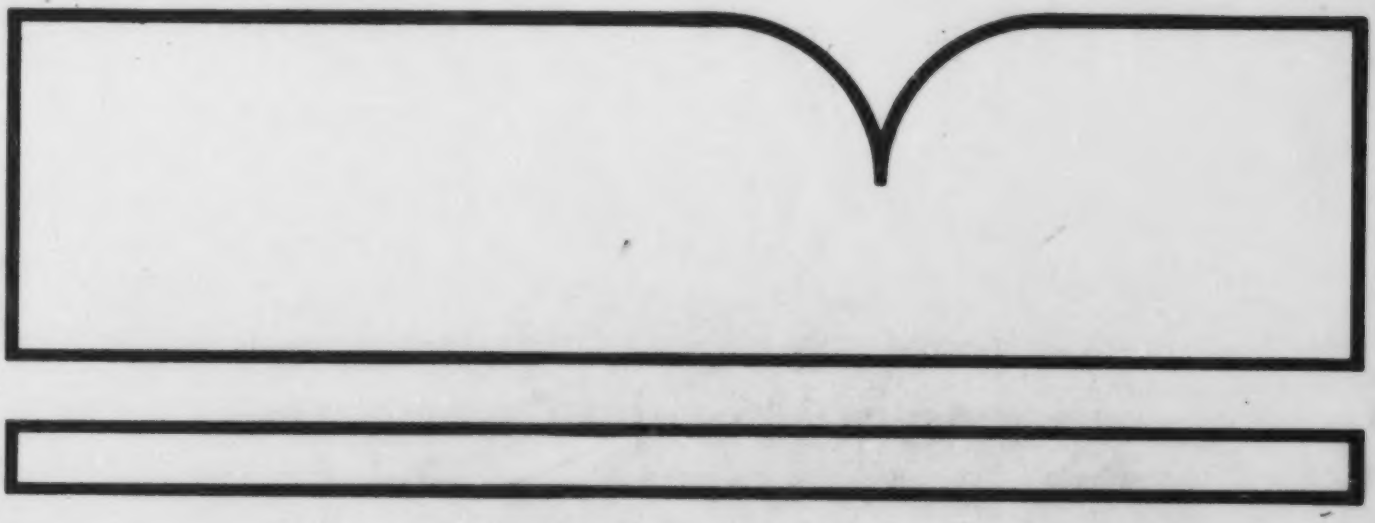

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DEVELOPMENT OF BASIC DATA AND KNOWLEDGE REGARDING ORGANIC REMOVAL CAPABILITIES OF COMMERCIALLY AVAILABLE HOME WATER TREATMENT UNITS UTILIZING ACTIVATED CARBON

Phase 2 Supplemental Data

Submitted to:

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Office of Water Supply (WH550)
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15. SUPPLEMENTARY NOTES

Frank Bell, Project Officer: This report contains the detailed data for Phase 2.

16. ABSTRACT

An extensive study of commercially available home water treatment units had been conducted over a 3-year period to examine organics reduction and microbiological factors.

Phase 2 addressed the testing of the bulk of the home treatment units (a total of 30 commericially available units and one experimental unit in both Phases 1 and 2). Before and after filter tests were run for trihalomethanes (THMs), non-purgeable total organic carbon (NPTOC), standard plate count (SPC) bacteria, endotoxin, silver levels (where appropriate) and other perpheral tests. Data and discussions are provided on THM reduction efficiencies, microbiological effects, the lack of bacteriostatic effect from silver and silver effluent levels for the individual units.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group

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PREFACE

The supplementary data section has been compiled to reduce the bulk of the Phase 2 report and includes data tables and figures not essential to the reading of the report. In this supplement, the original data are reported along with several groups of tables and figures which describe series of test runs for each of the units. A brief description of the groups of tables and figures is provided to aid the reader in data review. The suppplemental data are arranged in three categories: 1) analytical quality assurance, 2) organic chemical data, and 3) biological data.

ANALYTICAL QUALITY ASSURANCE

Substantial time and effort have been applied to assure the validity of the analytical results. Data listed in Tables S1 through S9 indicate the precision, accuracy, and recoveries obtained for various analytical methodologies used thus far in the study. Quality-assurance data presented in the tables were generated by a statistical manipulation of analytical data from duplicates, spikes, and standard samples (details are included in the Phase 2 report).

Precision, accuracy, and recovery quality-assurance data for the CCl_4 and trihalomethane (THM) analyses are presented in Tables S1 through S3. Tables S4 through S6 list quality-assurance data for the nonpurgeable total organic carbon (NPTOC) analyses. Additional quality-assurance data are given in Tables S7 through S9 for the silver analyses.

ORGANIC CHEMICAL DATA

The organic chemical data are divided into two categories corresponding to the major types of organic analyses employed in Phase 2: 1) CCl_4 and trihalomethane and 2) nonpurgeable total organic carbon.

Table S10 lists typical results from the chemical characterization of ambient New Orleans tap water. Table S11 and Figure S5 present the daily total CCl_4 + THM (T-,THM) and NPTOC levels in influent test water during the study period. Tables S12 through S86 list influent and effluent concentrations of CCl_4 and THM and NPTOC at various intervals during the rated lifetime of each carbon filter. These influent/effluent data were plotted in Figures S6 through S30 to determine the percent THM reduction achieved by each of the units, and percent NPTOC reduction is presented in Figures S31 through S55. (Since CCl_4 was rarely detected, its impact on THM reduction plots was considered negligible.)

BIOLOGICAL DATA

The biological supplemental data is divided into three groups: 1) standard plate count (SPC) data, 2) endotoxin, and 3) miscellaneous data. Table S87 lists the daily bacterial, physical, and chemical properties of control-loop effluents in a variety of ways to determine the effect of activated carbon on bacterial growth patterns. Tables S88 through S112 present the SPC, endotoxin, chlorine, and silver data from the second and third runs of each of the carbon-filter models. Table S113 presents the bacterial and endotoxin evaluations of new and used carbon samples from each of the carbon-filter models.

Figures S1 and S2 show the room and water temperatures and their typical 24-hr. patterns. These patterns are similar to those which exist within the carbon beds of individual units as a result of water cycling and differences in room and water temperatures. Figures S3 and S4 show the daily control-loop SPC, free chlorine, and endotoxin concentration of New Orleans tap water. Figures S56 through S80 show the average of the logs of test unit effluent (TUE) SPC minus the control loop (CL) SPC plotted at various intervals throughout the rated capacity (gallons) of individual units.

TABLE S1. PRECISION QUALITY CONTROL DATA FOR T-THM ANALYSES

Set Number	Trichloromethane				Tetrachloromethane				Bromodichloromethane				Dibromochloromethane				Tribromomethane			
	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i
1	172	170	171	2	A	A	--	--	22.4	22.4	22.4	0	4.3	4.4	4.4	0.1	A	A	--	--
2	164	172	168	8	A	A	--	--	20.3	20.8	20.6	0.5	4.4	4.4	4.4	0	A	A	--	--
3	213	214	214	1	A	A	--	--	26.6	26.8	26.7	0.2	6.1	6.0	6.1	0.1	A	A	--	--
4	218	216	217	2	A	A	--	--	24.4	25.2	24.8	0.8	6.5	6.6	6.6	0.1	A	A	--	--
5	154	150	152	4	A	A	--	--	9.4	9.3	9.4	0.1	1.8	1.9	1.9	0.1	A	A	--	--
6	195	192	194	3	A	A	--	--	21.7	21.1	21.4	0.6	4.1	4.1	4.1	0	A	A	--	--
7	111	117	114	6	A	A	--	--	5.7	5.9	5.8	0.2	1.1	1.3	1.2	0.2	A	A	--	--
8	169	169	169	0	0.6	0.5	0.6	0.1	27.8	27.6	27.7	0.2	11.1	11.3	11.2	0.2	A	A	--	--
9	130	128	129	2	A	A	--	--	20.6	20.2	20.4	0.4	7.7	7.6	7.7	0.1	A	A	--	--
10	27	26	27	1	A	A	--	--	A	A	--	--	0.6	0.6	0.6	0	A	A	--	--
11	33	31	32	2	A	A	--	--	2.5	2.3	2.4	0.2	1.3	1.3	1.3	0	A	A	--	--
12	180	181	181	1	A	A	--	--	28.7	28.7	28.7	0	10.1	10.1	10.1	0	A	A	--	--
13	70	69	70	1	A	A	--	--	5.8	5.8	5.8	0	2.2	2.3	2.3	0.1	A	A	--	--
14	107	101	104	6	A	A	--	--	7.6	7.6	7.6	0	2.0	2.0	2.0	0	A	A	--	--
15	184	178	181	6	A	A	--	--	24.1	23.5	23.8	0.6	7.9	7.7	7.8	0.1	A	A	--	--
16	A	A	0	0	A		--	--	A	A	--	--	A	A	--	--	A	A	--	--
17	41	43	42	2	A	A	--	--	A	A	--	--	A	A	--	--	A	A	--	--
18	118	110	114	8	A	A	--	--	19.4	18.4	18.9	1.0	7.0	6.8	6.9	0.2	A	A	--	--
19	165	171	168	6	A	A	--	--	19.9	21.4	20.7	1.5	6.4	6.9	6.7	0.5	A	A	--	--
20	50	52	51	2	A	A	--	--	2.9	3.9	3.4	1.0	2.7	2.5	2.6	0.2	A	A	--	--
21	87	90	89	3	A	A	--	--	10.2	10.4	10.3	0.2	2.1	2.0	2.1	0.1	A	A	--	--
22	122	120	121	2	A	A	--	--	10.5	10.2	10.4	0.3	3.2	3.2	3.2	0	A	A	--	--
23	107	123	115	16	A	A	--	--	10.3	11.3	10.8	1.0	3.3	3.4	3.4	0.1	A	A	--	--
24	160	150	155	10	A	A	--	--	15.8	15.7	15.8	0.1	3.3	3.3	3.3	0	A	A	--	--
25	44	52	48	8	A	A	--	--	11.8	14.3	13.1	2.5	1.4	1.3	1.4	0.1	A	A	--	--
26	121	128	126	5	A	A	--	--	14.3	14.9	14.6	0.6	1.3	1.5	1.4	0.2	A	A	--	--
27	90	101	96	11	A	A	--	--	9.7	10.7	10.2	1.0	1.7	1.9	1.8	0.2	A	A	--	--
28	96	106	101	6	A	A	--	--	18.0	14.2	16.1	1.9	1.5	1.4	1.5	0.1	A	A	--	--
29	84	85	85	1	A	A	--	--	14.4	14.0	14.2	0.4	0.7	0.8	0.8	0.1	A	A	--	--
30	126	137	132	11	A	A	--	--	19.1	21.1	20.1	2.0	1.9	1.8	1.9	0.1	A	A	--	--
31	183	172	178	11	A	A	--	--	12.6	12.8	12.7	0.2	1.6	1.7	1.7	0.1	A	A	--	--

(Continued)

TABLE S1. PRECISION QUALITY CONTROL DATA FOR T-$_1$THM ANALYSES (continued)

Set	Trichloromethane				Tetrachloromethane				Bromodichloromethane				Dibromochloromethane				Tribromomethane			
Number	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i	Sample A	Sample B	X_i	R_i
32	105	100	103	5	A	A	--	--	7.8	8.8	8.3	1.0	2.6	2.4	2.5	0.2	A	A	--	--
33	246	228	237	18	0.9	0.5	0.7	0.4	23.0	21.0	22.0	2.0	4.7	4.3	4.5	0.4	A	A	--	--
34	175	181	178	6	A	A	--	--	12.2	12.0	12.1	0.2	2.0	2.1	2.1	0.1	A	A	--	--
35	254	255	255	1	1.2	2.2	1.7	1.0	27.1	30.9	29	1.9	5.4	5.1	5.3	0.3	A	A	--	--
36	126	126	126	0	A	A	--	--	16.1	15.0	15.7	1.1	2.9	2.7	2.8	0.2	A	A	--	--
37	173	184	178	11	A	A	--	--	20.4	20.5	20.5	0.1	5.1	5.1	5.1	0	A	A	--	--
38	166	174	170	8	1.5	1.5	1.5	0	21.0	20.2	21.6	2.8	5.6	5.4	5.5	0.2	A	A	--	--
39	176	180	178	4	A	A	--	--	27.4	29.1	28.2	1.7	2.6	2.7	2.7	0.1	A	A	--	--
40	148	148	148	0	A	A	--	--	18.1	18.4	18.3	0.3	3.4	3.5	3.5	0.1	A	A	--	--
41	171	185	178	14	A	A	--	--	30.6	28.7	29.7	1.9	19.4	19.6	19.5	0.2	A	A	--	--
	ΣX_i = 5654								ΣX_i = 644.2				ΣX_i = 163.9							
	ΣR_i = 214								ΣR_i = 30.8				ΣR_i = 4.9							
	R_c = 0.124C								R_c = 0.156C				R_c = 0.098C							

A = <0.5

TABLE S2. ACCURACY QUALITY CONTROL DATA FOR T-,THM ANALYSES

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
							Check Standard								
1	156	159	98	8.4	7.4	113	32.8	30.8	106	9.9	8.3	119	10.6	9.8	108
2	145	159	91	7.7	7.4	104	30.3	30.8	98	9.3	8.3	112	9.4	9.8	96
3	136	159	86	7.0	7.4	95	26.9	30.8	87	8.1	8.3	98	8.8	9.8	90
4	139	159	87	7.1	7.4	96	27.6	30.8	89	8.2	8.3	99	8.8	9.8	90
5	155	159	97	8.1	7.4	109	31.9	30.8	103	9.1	8.3	97	10.1	9.8	103
6	152	159	95	7.7	7.4	104	31.5	30.8	102	9.2	8.3	110	9.8	9.8	100
7	162	159	102	8.5	7.4	114	33.6	30.8	109	9.5	8.3	114	11.7	9.8	119
8	142	154	92	7.8	7.5	104	30.1	30.9	97	8.6	8.3	103	9.5	9.6	99
9	136	154	88	8.5	7.5	112	26.7	30.9	86	8.8	8.3	106	10.1	9.6	105
10	129	154	84	7.6	7.5	101	29.9	30.9	97	8.7	8.3	105	9.7	9.6	100
11	134	154	87	8.1	7.5	107	31.3	30.9	101	8.5	8.3	103	10.0	9.6	104
12	144	154	94	8.1	7.6	106	27.1	25.5	106	8.4	8.4	100	9.1	9.9	92
13	139	154	90	8.6	7.6	113	28.7	25.5	112	9.2	8.4	109	9.9	9.9	100
14	139	154	90	8.4	7.6	110	27.9	25.5	109	8.8	8.4	104	9.5	9.9	95
15	137	154	88	8.2	7.6	107	27.6	25.5	108	8.7	8.4	103	9.5	9.9	95
16	132	154	85	7.1	7.6	93	22.7	25.5	89	8.5	8.4	101	9.2	9.9	92
17	152	154	98	8.3	7.6	109	26.0	25.5	102	9.6	8.4	114	10.6	9.9	107
18	147	154	95	7.9	7.6	103	25.8	25.5	101	9.7	8.4	115	10.6	9.9	107
19	148	154	96	8.1	7.6	106	26.2	25.5	102	9.9	8.4	117	10.8	9.9	109
20	156	154	101	8.4	7.6	110	26.6	25.5	104	10.0	8.4	119	11.1	9.9	112
21	140	154	90	7.4	7.6	97	23.1	25.5	90	8.5	8.4	101	8.9	9.9	90
22	145	154	94	7.9	7.6	103	26.1	25.5	102	9.5	8.4	113	10.1	9.9	102
23	158	154	102	8.3	7.6	109	26.7	25.5	104	9.5	8.4	113	10.2	9.9	103
24	148	154	96	8.2	7.6	107	25.8	25.5	101	9.7	8.4	115	10.9	9.9	110
25	147	154	95	8.2	7.6	107	25.8	25.5	101	9.6	8.4	114	10.6	9.9	107
26	127	154	82	7.0	7.6	92	22.7	25.5	89	8.3	8.4	98	9.1	9.9	92
27	127	154	82	6.9	7.6	90	22.4	25.5	87	8.1	8.4	96	8.8	9.9	88
28	158	154	102	7.2	7.6	94	23.5	25.5	92	8.4	8.4	100	9.5	9.9	96
29	141	154	92	7.2	7.6	94	23.2	25.5	90	9.1	8.4	108	9.8	9.9	99

(Continued)

TABLE S2. ACCURACY QUALITY CONTROL DATA FOR T-,TEM ANALYSES (Continued)

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
30	140	150	93	7.3	7.4	99	28.7	29.7	97	8.9	8.3	107	10.4	9.6	108
31	153	150	102	8.1	7.4	109	29.7	29.7	100	9.4	8.3	113	10.4	9.6	108
32	145	150	97	7.5	7.4	101	29.3	29.7	99	8.8	8.3	106	10.5	9.6	109
33	139	154	90	11.1	12.3	90	27.5	29.7	93	9.5	8.3	114	9.3	9.9	94
	Average ± SD 92 ± 6			Average ± SD 103 ± 7			Average ± SD 98 ± 8			Average ± SD 107 ± 7			Average ± SD 100 ± 7		

TABLE S2. ACCURACY QUALITY CONTROL DATA FOR T-, THM ANALYSES

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
							Standard 2								
1	43	40	107	4.8	5.2	92	9.3	11.4	82	6.7	7.0	96	7.8	8.0	98
2	42	40	105	5.1	5.2	98	11.4	11.4	100	7.4	7.0	100	7.4	8.0	93
3	43	40	107	5.5	5.2	105	11.8	11.4	104	7.6	7.0	109	7.9	8.0	99
4	44	40	110	5.1	5.2	98	11.2	11.4	98	7.1	7.0	101	7.5	8.0	94
5	43	40	107	5.2	5.2	100	11.1	11.4	97	7.0	7.0	100	7.5	8.0	94
6	43	40	107	5.1	5.2	98	11.7	11.4	103	6.8	7.0	97	7.6	8.0	95
7	46	40	116	5.5	5.2	106	12.2	11.4	107	7.0	7.0	100	8.1	8.0	101
8	42	41	105	5.6	5.1	109	13.0	10.9	119	7.3	6.8	107	8.4	8.5	98
9	48	41	117	5.7	5.1	111	11.8	10.9	108	7.8	6.8	114	9.0	8.5	105
10	41	41	100	4.9	5.1	96	10.4	10.9	95	7.1	6.8	104	7.9	8.5	92
11	35	41	85	4.6	5.1	90	10.7	10.9	98	6.5	6.8	95	6.8	8.5	80
12	39	41	95	4.8	5.1	94	10.1	10.9	92	6.9	6.8	101	7.3	8.5	86
13	45	41	109	5.4	5.1	105	11.9	10.9	109	7.6	6.8	111	8.2	8.5	96
14	46	41	112	5.6	5.1	109	12.1	10.9	111	7.9	6.8	116	9.2	8.5	108
15	41	41	100	4.8	5.1	94	10.8	10.9	99	6.9	6.8	101	7.9	8.5	92
16	45	41	109	5.4	5.1	105	11.8	10.9	108	7.5	6.8	110	8.6	8.5	101
17	44	41	107	5.2	5.1	102	11.7	10.9	107	7.6	6.8	111	8.9	8.5	104
18	41	41	100	4.7	5.1	92	10.3	10.9	94	7.6	6.8	111	8.6	8.5	101
19	49	46	111	5.1	5.4	94	10.5	10.9	96	7.4	6.9	107	8.8	8.5	103
20	51	44	115	5.4	5.4	100	12.0	10.9	110	7.5	6.9	108	8.8	8.5	103
21	43	41	104	4.8	5.1	94	10.6	10.8	98	7.2	7.1	101	7.9	8.2	96
22	45	41	109	5.1	5.1	100	11.1	10.8	103	7.4	7.1	104	8.1	8.2	99
23	45	41	109	5.1	5.1	100	11.3	10.8	105	7.6	7.1	107	7.8	8.2	95
24	43	41	104	4.7	5.1	92	10.7	10.8	99	7.2	7.1	101	7.5	8.2	91
25	46	46	100	4.7	4.9	96	11.0	11.5	95	9.2	7.9	116	9.3	8.2	94
	Average ± SD 106 ± 7			Average ± SD 99 ± 6			Average ± SD 101 ± 8			Average ± SD 105 ± 6			Average ± SD 97 ± 6		

TABLE S2. ACCURACY QUALITY CONTROL DATA FOR T-, THM ANALYSES

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
							Standard 4								
1	177	161	109	20.4	20.6	99	42.2	45.2	93	27.2	27.6	98	37.2	32.2	115
2	163	161	101	20.2	20.6	98	40.1	45.2	88	26.8	27.6	97	34.8	32.2	108
3	163	161	101	20.0	20.6	97	41.3	45.2	91	27.5	27.6	99	34.8	32.2	108
4	169	161	104	20.2	20.6	98	41.5	45.2	92	27.8	27.6	101	35.7	32.2	110
5	145	161	90	19.3	20.6	94	43.4	45.2	96	26.3	27.6	95	30.3	32.2	94
6	140	161	87	18.5	20.6	90	40.8	45.2	94	25.3	27.6	92	28.5	32.2	88
7	143	161	88	18.6	20.6	90	41.8	45.2	92	25.5	27.6	89	28.9	32.2	89
8	152	161	94	19.1	20.6	93	39.5	45.2	87	23.5	27.6	85	28.4	32.2	88
9	138	161	85	17.6	20.6	85	37.7	45.2	83	22.8	27.6	83	26.4	32.2	81
10	147	161	91	18.2	20.6	88	40.3	45.2	89	24.4	27.6	88	28.7	32.2	89
11	148	161	92	19.3	20.6	94	42.4	45.2	94	25.8	27.6	93	30.4	32.2	94
12	141	161	87	17.9	20.6	87	40.3	45.2	89	24.7	27.6	89	28.5	32.2	88
13	147	161	91	18.7	20.6	91	44.9	45.2	99	21.4	27.6	77	26.4	32.2	81
14	146	161	91	18.9	20.6	92	43.6	45.2	96	23.1	27.6	84	27.5	32.2	85
15	145	161	90	19.0	20.6	92	43.3	45.2	96	23.4	27.6	85	27.6	32.2	86
16	151	161	94	19.8	20.6	96	45.0	45.2	99	24.9	27.6	90	28.6	32.2	88
17	155	165	94	20.8	21.2	98	48.7	45.6	106	26.1	27.5	95	30.4	34.8	87
18	171	165	104	22.0	21.2	104	46.4	45.6	102	28.0	27.5	102	35.0	34.8	101
19	162	165	98	21.2	21.2	100	45.0	45.6	98	28.3	27.5	102	38.0	34.8	109
20	173	165	105	22.5	21.2	106	47.7	45.6	104	28.3	27.5	102	36.0	34.8	103
21	177	165	107	21.3	21.2	109	53.9	45.6	118	28.2	27.5	102	32.3	34.8	93
22	153	165	92	20.4	21.2	96	47.0	45.6	103	27.3	27.5	99	33.1	34.8	95
23	145	165	88	19.5	21.2	95	45.5	45.5	99	24.6	27.5	89	31.4	34.8	90
24	172	165	104	22.8	21.2	107	46.8	45.6	102	28.9	27.5	105	36.8	34.8	105
25	146	165	88	18.4	21.2	86	33.4	45.6	73	31.5	27.5	114	31.1	34.8	89
26	165	161	102	18.9	20.5	92	39.2	43.4	90	28.7	27.4	104	37.9	34.0	111
27	157	161	97	20.4	20.5	99	42.8	43.4	98	27.1	27.4	98	33.4	34.0	98
28	161	161	100	22.8	20.5	111	50.8	43.4	117	27.9	27.4	101	34.9	34.0	102
29	178	161	110	25.5	20.5	124	56.3	43.4	129	31.3	27.4	114	38.8	34.0	114
30	164	161	102	22.5	20.5	109	54.8	43.4	126	25.8	27.4	94	31.5	34.0	92
31	143	161	88	19.6	20.5	95	45.2	43.4	104	24.9	27.4	90	30.5	34.0	89
32	142	161	88	19.0	20.5	93	45.1	43.4	103	25.1	27.4	92	30.8	34.0	91

(Continued)

TABLE S2. ACCURACY QUALITY CONTROL DATA FOR T-,THM ANALYSES (Continued)

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
							Standard 4								
33	157	161	98	21.9	20.5	106	48.1	43.4	110	26.8	27.4	97	32.7	34.0	96
34	153	161	95	20.1	20.5	98	43.2	43.4	99	27.7	27.4	101	34.2	34.0	101
35	192	161	119	23.9	20.5	116	50.6	43.4	116	31.9	27.4	116	39.8	34.0	117
36	184	161	114	23.2	20.5	113	50.1	43.4	115	32.4	27.4	118	39.6	34.0	116
37	161	161	100	20.5	20.5	100	43.4	43.4	100	27.1	27.4	98	33.7	34.0	99
38	161	161	100	20.6	20.5	100	44.1	43.4	101	27.9	27.4	101	34.5	34.0	101
39	157	161	97	20.6	20.5	100	43.1	43.4	99	26.5	27.4	96	33.0	34.0	97
40	135	161	84	17.5	20.5	85	37.5	43.4	86	22.7	27.4	82	27.6	34.0	80
41	177	161	109	21.2	20.5	103	47.9	43.4	110	30.5	27.4	111	37.9	34.0	111
42	169	161	104	21.0	20.5	102	44.0	43.4	101	27.9	27.4	101	33.8	34.0	99
43	152	161	94	19.5	20.5	95	41.3	43.4	95	26.6	27.4	97	32.9	34.0	96
44	155	161	96	19.6	20.5	95	41.5	43.4	96	27.1	27.4	98	33.2	34.0	98
45	159	161	99	20.6	20.5	100	43.6	43.4	100	28.1	27.4	102	35.0	34.0	102
46	145	161	90	18.2	20.5	88	39.7	43.4	91	25.1	27.4	92	30.8	34.0	90
47	141	161	88	18.0	20.5	88	39.3	43.4	90	25.6	27.4	93	31.1	34.0	91
48	161	161	100	20.5	20.5	100	41.4	43.4	100	27.4	27.4	100	34.0	34.0	100
49	156	161	96	19.5	20.5	95	41.9	43.4	96	26.4	27.4	96	33.3	34.0	98
50	160	161	99	20.2	20.5	98	42.8	43.4	98	27.3	27.4	99	34.2	34.0	101
51	144	161	89	18.7	20.5	91	38.5	43.4	89	27.1	27.4	99	33.5	34.0	96
52	155	177	88	18.2	21.4	85	38.4	43.7	88	24.6	27.5	89	30.8	33.9	91
53	157	177	89	18.0	21.4	84	38.5	43.7	88	24.5	27.5	89	30.3	33.9	89
54	177	177	100	20.7	21.4	96	43.7	43.7	100	27.9	27.5	101	34.4	33.9	101
55	175	177	98	21.3	21.4	99	43.5	43.7	99	27.2	27.5	99	33.5	33.9	99
56	188	177	106	23.5	21.4	109	47.1	43.7	107	29.6	27.5	107	36.7	33.9	108
57	168	177	95	20.3	21.4	95	41.6	43.7	96	26.0	27.5	95	32.5	33.9	96
58	178	177	101	21.4	21.4	100	45.6	43.7	104	29.2	27.5	106	36.7	33.9	108
59	167	177	94	20.0	21.4	93	42.1	43.7	96	26.0	27.5	95	33.4	33.9	99
60	160	177	90	18.6	21.4	86	40.2	43.7	91	25.9	27.5	94	31.8	33.9	94
61	166	177	93	19.7	21.4	92	41.0	43.7	93	26.0	27.5	95	31.6	33.9	93

(Continued)

TABLE 52. ACCURACY QUALITY CONTROL DATA FOR T-,THM ANALYSES (Continued)

Set Number	Trichloromethane Observed Value (ppb)	Trichloromethane Actual Value (ppb)	Trichloromethane Percent Recovery	Tetrachloromethane Observed Value (ppb)	Tetrachloromethane Actual Value (ppb)	Tetrachloromethane Percent Recovery	Bromodichloromethane Observed Value (ppb)	Bromodichloromethane Actual Value (ppb)	Bromodichloromethane Percent Recovery	Dibromochloromethane Observed Value (ppb)	Dibromochloromethane Actual Value (ppb)	Dibromochloromethane Percent Recovery	Tribromomethane Observed Value (ppb)	Tribromomethane Actual Value (ppb)	Tribromomethane Percent Recovery
							Standard 4								
62	174	177	98	20.5	21.4	96	41.2	43.7	94	25.7	27.5	93	30.8	33.9	91
63	174	177	98	20.4	21.4	95	41.1	43.7	94	25.8	27.5	93	30.5	33.9	90
64	181	177	102	21.6	21.4	101	43.5	43.7	99	27.6	27.5	100	32.9	33.9	97
65	165	162	102	20.7	20.3	101	43.5	43.2	100	28.7	28.4	101	34.1	32.8	104
66	159	162	98	19.9	20.3	98	42.3	43.2	98	27.9	28.4	98	32.3	32.8	98
67	145	162	90	17.9	20.3	88	38.5	43.2	89	25.9	28.4	91	29.6	32.8	90
68	142	162	88	17.8	20.3	88	39.1	43.2	90	26.2	28.4	92	30.2	32.8	92
69	144	162	89	17.4	20.3	86	38.9	43.2	90	26.4	28.4	93	30.5	32.8	91
70	191	181	106	19.5	19.7	98	45.7	45.9	99	31.6	31.7	99	31.5	34.1	97
71	173	181	94	18.9	19.7	96	44.1	45.9	96	32.6	31.7	102	33.0	34.3	96
72	191	181	106	20.3	19.7	103	48.7	45.9	106	37.4	31.7	117	39.4	34.3	114
73	180	181	98	19.2	19.7	97	45.4	45.9	98	31.1	31.7	98	32.8	34.3	95
74	160	181	87	17.5	19.7	88	42.0	45.9	91	30.1	31.7	95	32.5	34.3	95
	Average ± SD 96 ± 7			Average ± SD 95 ± 12			Average ± SD 97 ± 9			Average ± SD 96 ± 12			Average ± SD 97 ± 12		
TOTAL (132)	Average ± SD 97 ± 8			Average ± SD 99 ± 8			Average ± SD 99 ± 9			Average ± SD 101 ± 9			Average ± SD 98 ± 8		

TABLE S1. RECOVERY QUALITY CONTROL DATA FOR T-,THM ANALYSES

Set Number	Trichloromethane			Tetrachloromethane			Bromodichloromethane			Dibromochloromethane			Tribromomethane		
	Spiked Result (ppb)	Unspiked Result (ppb)	Percent Recovery	Spiked Result (ppb)	Unspiked Result (ppb)	Percent Recovery	Spiked Result (ppb)	Unspiked Result (ppb)	Percent Recovery	Spiked Result (ppb)	Unspiked Result (ppb)	Percent Recovery	Spiked Result (ppb)	Unspiked Result (ppb)	Percent Recovery
1	179	122	72	3.9	A	105	24.1	11.5	82	6.6	2.4	102	5.0	A	102
2	181	122	74	3.7	A	100	23.4	11.5	77	6.4	2.5	95	4.7	A	96
3	163	103	76	4.3	0.6	100	26.1	12.2	90	6.8	2.9	92	4.7	A	96
4	174	103	90	4.6	0.6	108	27.8	12.2	101	7.2	2.9	102	5.3	A	108
5	176	102	94	4.5	A	122	28.2	11.8	106	7.6	2.8	114	5.7	A	116
6	167	102	84	3.9	A	105	26.0	11.8	92	7.1	2.8	102	5.0	A	102
7	176	92	106	4.8	A	129	30.9	12.2	121	7.8	2.9	114	6.2	A	126
8	170	112	71	3.1	A	83	25.1	10.0	97	7.3	3.2	98	4.5	A	98
9	247	169	101	5.0	A	104	35.8	17.6	116	8.2	4.1	97	5.0	A	102
10	206	146	78	5.6	A	105	34.5	20.2	92	9.1	4.9	100	13.3	7.8	114
11	200	140	78	4.1	A	107	35.8	20.9	106	9.2	4.9	102	5.2	A	116
12	212	140	93	4.1	A	107	34.2	20.9	101	9.6	4.9	111	5.2	A	116
13	208	140	88	3.7	A	97	28.5	17.2	91	9.6	5.5	97	4.7	A	94
14	200	126	96	4.2	A	110	34.4	21.6	104	12.7	7.9	114	5.9	A	120
15	194	130	83	3.8	A	100	41.5	32.1	90	12.2	8.1	98	4.9	A	101
16	196	143	71	3.8	A	102	35.7	21.7	81	12.1	8.5	86	5.0	A	104
17	239	170	92	4.0	A	103	43.2	28.9	96	13.9	9.5	104	5.2	A	108
18	219	148	88	8.1	A	76	35.1	18.2	84	16.1	6.0	73	13.0	A	76
19	178	107	98	4.2	A	116	28.7	15.4	101	11.3	6.1	126	6.1	A	119
	Average ± SD 86 ± 11			Average ± SD 104 ± 12			Average ± SD 96 ± 12			Average ± SD 101 ± 12			Average ± SD 106 ± 12		

A = <0.5

TABLE S4. PRECISION QUALITY CONTROL DATA FOR NPTOC ANALYSIS (ppb)

Set Number	Sample A	Sample B	$\overline{X_i}$	R_i
1	2051	2093	2072	42
2	1739	1745	1742	6
3	1525	1525	1525	0
4	2345	2371	2358	26
5	2027	2037	2032	10
6	2419	2457	2438	38
7	2675	2724	2700	49
8	2814	2981	2897	167
9	2729	2867	2798	138
10	2242	2269	2256	27
11	2810	2733	2771	37
12	2818	2657	2738	161
13	2188	2282	2235	94
14	2251	2258	2255	7
15	2026	2041	2034	15
16	3251	3176	3214	75
17	2761	2754	2758	7
18	3259	3356	3308	97
19	2891	2921	2906	30
20	2671	2581	2626	90
21	2540	2439	2489	101
22	10988	11034	11011	46
23	3149	3078	3113	71
24	2445	2504	2475	59
25	2730	2774	2752	44
26	3106	3089	3098	17
27	2885	2863	2874	22
28	2797	2759	2778	38
29	2052	2127	2090	75
30	2600	2537	2569	63
31	1934	1917	1926	17
32	2642	2574	2608	68
33	2322	2311	2317	11
34	2326	2329	2328	3
35	1969	2019	1994	50
36	2599	2582	2591	17
37	1969	1586	1641	110
38	2865	2845	2855	20
39	2054	2060	2057	6
40	2293	2266	2279	27
41	2424	2388	2406	36
42	2307	2295	2301	12
43	2064	2104	2084	40
44	2435	2379	2407	56
45	2488	2458	2473	30
46	2389	2383	2386	6
47	2595	2566	2581	29

(Continued)

TABLE S4. (Continued)

Set Number	Sample A	Sample B	$\overline{X_i}$	R_i
48	2487	2487	2482	9
49	401	379	390	22
50	2288	2311	2299	23
51	145	161	153	16
52	1722	1752	1737	30
53	2056	2039	2047	17
54	2075	2103	2089	28
55	1774	1782	1778	8
56	1212	1180	1196	32
57	282	292	287	10
58	2121	2138	2130	17
59	2045	2042	2043	3
60	2259	2245	2252	14
61	1891	1913	1902	22
			$\Sigma X_i = 146931$	$\Sigma R_i = 2441$

Estimate of critical difference values: $R_c = 0.0543C$

TABLE S5. ACCURACY QUALITY CONTROL DATA FOR NPTOC ANALYSIS

Set Number	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
1	1019	1000	102
2	1110	1000	111
3	951	1000	95
4	1018	1000	102
5	1131	1000	113
6	1069	1000	107
7	1094	1000	109
8	966	1000	97
9	1009	1000	101
10	990	1000	99
11	1020	1000	102
12	874	1000	87
13	972	1000	97
14	964	1000	96
15	1179	1000	118
16	1034	1000	103
17	968	1000	97
18	1016	1000	102
19	1057	1000	106
		Average ± standard deviation:	102 ± 7
1	1916	2000	96
2	1882	2000	94
3	1842	2000	92
4	1845	2000	92
5	1887	2000	94
6	1999	2000	100
7	1847	2000	92
8	1996	2000	98
9	1895	2000	95
10	1868	2000	93
11	2054	2000	103
12	2021	2000	101
13	2022	2000	101
14	2020	2000	101
15	2029	2000	101
16	2073	2000	104
17	2055	2000	103
18	2036	2000	102
19	2035	2000	102
20	2082	2000	104
21	2035	2000	102
22	2086	2000	104
23	1996	2000	100
24	2028	2000	101
25	2009	2000	100

(Continued)

TABLE S5. ACCURACY QUALITY CONTROL DATA FOR NPTOC ANALYSIS (Continued)

Set Number	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
26	1867	2000	93
27	1938	2000	97
28	1970	2000	98
29	1974	2000	99
30	2038	2000	102
31	2118	2000	106
32	2033	2000	102
33	1978	2000	99
34	2005	2000	100
35	1995	2000	100
36	1912	2000	96
37	1992	2000	100
38	1909	2000	95
39	2113	2000	106
40	1944	2000	97
41	2002	2000	100
42	1847	2000	92
43	2008	2000	100
44	1963	2000	98
45	2100	2000	105
46	1934	2000	97
47	1996	2000	100
48	1982	2000	99
49	1964	2000	98
50	2000	2000	100
51	2040	2000	102
52	2001	2000	100
53	2016	2000	101
54	1987	2000	99
55	1996	2000	99
56	1998	2000	99
57	2000	2000	100
58	2039	2000	102
59	1931	2000	96
60	1961	2000	98
61	2028	2000	101
62	1845	2000	92
63	1961	2000	98
64	1943	2000	97
65	1929	2000	96
66	2097	2000	105
67	2011	2000	100
68	1965	2000	98
69	2087	2000	104
70	1963	2000	98
71	1846	2000	92
72	1951	2000	97
73	1899	2000	95

(Continued)

TABLE S5. ACCURACY QUALITY CONTROL DATA FOR NPTOC ANALYSIS (Continued)

Set Number	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
74	1955	2000	98
75	1961	2000	98
76	2113	2000	105
77	2163	2000	108
78	2150	2000	107
79	1805	2000	90
80	2002	2000	100
81	1945	2000	97
82	2017	2000	101
83	1960	2000	98
84	1902	2000	95
85	1991	2000	99
86	2153	2000	107
87	1943	2000	97
88	1892	2000	94
89	1920	2000	96
90	1852	2000	92
91	1873	2000	93
92	2018	2000	100
93	1974	2000	98
94	1919	2000	95
95	1918	2000	95
96	1942	2000	97
97	2014	2000	100
98	2069	2000	103
99	2039	2000	102
100	2131	2000	106
101	1905	2000	95
102	1990	2000	99
103	1975	2000	98
		Average ± standard deviation:	99 ± 4
1	3188	3000	106
2	2819	3000	94
3	3103	3000	103
4	2848	3000	95
5	3123	3000	104
6	3008	3000	100
7	2992	3000	99
8	3102	3000	103
9	2919	3000	97
10	3040	3000	101
11	3088	3000	103
12	2930	3000	98
13	2969	3000	99
14	2912	3000	97
		Average ± standard deviation:	99 ± 4
	Total of 136 sets:	Average ± standard deviation:	99 ± 5

TABLE S6. RECOVERY QUALITY CONTROL DATA FOR NPTOC ANALYSIS

Set Number	Spiked Concentration (ppb)	Unspiked Concentration (ppb)	Concentration Recovered (ppb)	Concentration Spiked (ppb)	Percent Recovery
1	4002	2151	1851	2000	93
2	2861	992	1869	2000	93
3	3939	2176	1763	2000	88
4	4367	2342	2025	2000	101
5	4026	2158	1868	2000	93
6	4317	2364	1953	2000	98
7	4944	3000	1944	2000	97
8	3570	1481	2089	2000	104
9	4745	2606	2139	2000	107
10	4264	2295	1969	2000	98
11	4373	2602	1771	2000	88
12	4437	2601	1836	2000	92
13	4135	2236	1899	2000	95
14	4308	2779	1529	2000	76
15	4776	3100	1676	2000	84
16	4209	2210	1999	2000	100
17	3179	1136	2043	2000	102
18	4964	2900	2064	2000	103
19	4837	2745	2092	2000	105
20	4957	2979	1978	2000	99
21	4883	3017	1866	2000	93
22	4567	2561	2006	2000	100
23	4372	2555	1817	2000	91
24	4439	2431	2008	2000	100
25	3601	1773	1828	2000	91
26	4700	2722	1978	2000	99
27	5190	2666	2524	2000	126
28	4291	2407	1884	2000	94
29	4526	2700	1826	2000	91
30	3949	2096	1853	2000	93
31	6611	2197	4414	4000	110
32	4076	2243	1833	2000	92
33	3140	2095	1045	1000	104
34	4343	2396	1947	2000	97
35	4400	2396	2004	2000	100
36	4148	2142	2006	2000	100
37	3191	1450	1741	2000	87
38	3857	2038	1819	2000	91
39	4102	2163	1939	2000	97
40	3093	2078	1015	1000	101
41	3869	1860	2009	2000	100
42	3785	1908	1877	2000	94
43	3051	1107	1944	2000	97
44	4203	2261	1942	2000	97
45	4055	2190	1865	2000	93

(Continued)

TABLE S6. RECOVERY QUALITY CONTROL DATA FOR NPTOC ANALYSIS (continued)

Set Number	Spiked Concentration (ppb)	Unspiked Concentration (ppb)	Concentration Recovered (ppb)	Concentration Spiked (ppb)	Percent Recovery
46	2405	379	2026	2000	101
47	4144	2165	1979	2000	98
48	3901	1819	2082	2000	104
		Average ± standard deviation:		97 ± 8	

TABLE S7. PRECISION QUALITY CONTROL DATA FOR SILVER ANALYSIS (ppb)

Set Number	Sample A	Sample B	$\overline{X}_i$	R_i
1	<1	<1	<1	0
2	<1	<1	<1	0
3	<1	<1	<1	0
4	11	12.8	11.9	1.8
5	2	2	2	0
6	<1	<1	<1	0
7	1.4	2.6	2	1.2
8	<1	<1	<1	0
9	7.8	7.7	7.75	0.1
10	<1	<1	<1	0

$\Sigma X_i = 29.7$ $\Sigma R_i = 3.1$ $R_c = 0.341C$

TABLE S8. ACCURACY QUALITY CONTROL DATA FOR SILVER

Set Number	Observed Value (ppb)	Actual Value (ppb)	Percent Recovery
1	8.6	6.4	134
2	3.7	3.2	116
3	8.5	6.4	133
4	7.0	6.4	110
5	6.6	6.4	103
6	3.2	3.2	100
7	6.4	6.4	100
		Average ± standard deviation:	114 ± 15

TABLE S9. RECOVERY QUALITY CONTROL DATA FOR SILVER ANALYSIS

Set Number	Spiked Concentration (ppb)	Unspiked Concentration (ppb)	Concentration Recovered (ppb)	Concentration Spiked (ppb)	Percent Recovery
1	4.6	1.2	3.4	3.2	106
2	2.6	0.7	1.9	3.2	60
3	10.5	9.4	1.1	3.2	35
4	9.8	5.5	4.3	3.2	134
5	9.0	5.6	3.4	6.4	53
6	7.0	2.8	4.2	6.4	66
7	6.4	1.0	5.4	6.4	84
8	6.1	0.9	5.2	6.4	81
9	5.4	0.8	4.6	6.4	72
			Average ± standard deviation:		77 ± 29

TABLE S10. TYPICAL RESULTS FROM THE CHEMICAL CHARACTERIZATION OF AMBIENT NEW ORLEANS TEST WATER.

Constituent	Sample Concentration	Method Detection Limit	Method of Determination
arsenic	ND*	5 µg/l	FAAS*
barium	100 µg/l	30 µg/l	FAAS
cadmium	ND	1 µg/l	FAAS
chromium	ND	5 µg/l	FAAS
lead	ND	5 µg/l	FAAS
mercury	ND	0.2 µg/l	FAAS
selenium	ND	5 µg/l	FAAS
silver	ND	1 µg/l	FAAS
fluoride	1.2 mg/l	0.1 mg/l	specific ion electrode
nitrate-N	0.9 mg/l	0.05 mg/l	cadmium reduction
conductivity	350 µmhos/cm	--	conductivity meter
pH	9.5	--	pH meter
total dissolved solids	255 mg/l	--	gravimetric
turbidity	0.02 NTU	--	nephelometer
lindane	ND	0.004 µg/l	EC-GC*
heptachlor	ND	0.001 µg/l	EC-GC
aldrin	ND	0.001 µg/l	EC-GC
heptachlor epoxide	ND	0.002 µg/l	EC-GC
DDE	ND	0.003 µg/l	EC-GC
DDD	ND	0.003 µg/l	EC-GC
DDT	ND	0.009 µg/l	EC-GC
dieldrin	ND	0.002 µg/l	EC-GC
endrin	ND	0.003 µg/l	EC-GC
toxaphene	ND	0.061 µg/l	EC-GC
methoxychlor	ND	0.009 µg/l	EC-GC
2,4-D	ND	0.023 µg/l	EC-GC
2,4,5-T	ND	0.011 µg/l	EC-GC
Silvex	ND	0.016 µg/l	EC-GC

*ND - not detected
FAAS - flameless atomic absorption spectrophotometry
EC-GC - electron capture gas chromatography

TABLE S11. TETRA- AND TRIHALOMETHANE AND NONPURGEABLE TOTAL ORGANIC CARBON CONCENTRATIONS IN INFLUENT WATER

Date	Tetra- and Trihalomethanes (ppb)						
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	NPTOC (ppb)
02-20-79	84	*	13.0	2.9	*	100	2604
02-21-79	81	*	13.0	2.1	*	97	2499
02-22-79	82	*	12.9	2.8	*	98	2481
02-23-79	81	*	13.4	3.1	*	98	2460
02-24-79	87	*	13.7	3.1	*	103	2680
02-27-79	85	*	12.4	3.0	*	100	2672
02-28-79	99	*	12.7	2.7	*	115	2572
03-01-79	115	*	14.1	2.5	*	131	2939
03-02-79	108	*	13.7	2.5	*	124	2734
03-03-79	105	*	14.5	2.6	*	122	2706
03-04-79	100	*	16.5	3.6	*	120	2549
03-05-79	109	*	18.7	4.1	*	132	2433
03-06-79	114	*	16.2	4.0	*	134	2607
03-07-79	94	*	11.4	2.2	*	107	2533
03-08-79	97	*	11.7	2.3	*	111	2494
03-09-79	98	*	10.6	2.0	*	111	2646
03-10-79	85	*	10.7	1.4	*	97	2555
03-11-79	100	*	8.0	1.5	*	109	(2651) †
03-12-79	103	*	8.4	1.6	*	113	2746
03-13-79	101	*	9.0	1.3	*	111	2683
03-14-79	101	*	9.1	1.3	*	111	2627
03-15-79	107	*	8.7	1.6	*	117	2482
03-16-79	97	*	8.3	1.4	*	107	2637
03-17-79	101	*	9.3	1.5	*	112	2572
03-18-79	101	*	10.7	1.9	*	113	2643
03-19-79	95	*	10.5	1.9	*	106	2872
03-20-79	99	*	9.7	1.8	*	110	2591
03-21-79	92	*	13.8	1.9	*	108	2515
03-22-79	115	*	12.8	2.5	*	130	2505
03-23-79	109	*	11.7	2.4	*	123	2557
03-24-79	114	*	12.1	2.5	*	129	2517
03-25-79	119	*	13.9	3.0	*	136	2537
03-26-79	88	*	10.3	1.8	*	100	2802
03-27-79	94	*	15.9	3.5	*	113	2562
03-28-79	87	*	12.5	3.0	*	103	2758
03-29-79	81	*	8.9	1.7	*	92	2426
03-30-79	139	*	21.0	4.0	*	164	2416
03-31-79	166	*	30.0	4.6	*	201	2462
04-01-79	125	*	16.0	4.0	*	145	2251
04-02-79	148	*	19.0	4.0	*	171	2728
04-03-79	152	*	19.0	4.0	*	175	2536
04-04-79	162	*	22.0	5.0	*	189	2630
04-05-79	193	*	26.0	5.0	*	224	2685

(Continued)

TABLE S11. (continued)

Date	Tetra- and Trihalomethanes (ppb)						
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	NPTOC (ppb)
04-07-79	192	*	25.0	5.0	*	222	2837
04-08-79	141	*	21.0	3.2	*	165	2937
04-09-79	153	*	13.0	4.9	*	171	2979
04-10-79	154	*	26.3	3.8	*	184	3311
04-11-79	162	*	26.1	3.0	*	191	3312
04-12-79	125	*	21.9	1.7	*	148	3257
04-13-79	130	*	21.8	3.2	*	155	3095
04-15-79	156	*	14.9	2.9	*	174	3045
04-16-79	143	*	12.8	3.8	*	160	2934
04-17-79	128	*	11.4	3.4	*	143	2995
04-18-79	149	*	11.5	3.0	*	164	3120
04-19-79	142	*	20.0	*	*	162	2627
04-20-79	198	*	26.4	3.6	*	228	2631
04-21-79	212	*	25.6	3.9	*	241	2779
04-22-79	213	*	19.3	4.3	*	237	3464
04-23-79	185	*	27.8	3.3	*	216	3197
04-24-79	213	*	23.4	4.0	*	240	2955
04-25-79	227	*	26.7	4.3	*	258	2661
04-26-79	218	*	19.9	4.0	*	242	3094
04-27-79	234	*	30.4	4.5	*	269	3092
04-28-79	228	*	23.7	4.2	*	256	3028
04-29-79	228	*	21.0	4.3	*	253	2914
04-30-79	213	*	23.7	5.1	*	242	2844
05-01-79	233	*	17.0	7.8	*	258	3124
05-02-79	228	2.1	31.4	5.1	*	267	3125
05-03-79	(237)	(2.0)	(31.9)	(5.7)	(*)	(277)	3139
05-04-79	245	1.9	32.3	6.3	*	286	3068
05-05-79	250	1.7	29.0	5.3	*	286	3131
05-06-79	286	1.3	41.4	6.5	*	335	3071
05-07-79	243	1.1	30.9	4.9	*	280	3295
05-08-79	264	1.6	36.4	6.7	*	309	3208
05-09-79	245	0.8	26.6	5.6	*	278	3116
05-10-79	235	1.2	33.5	4.9	*	275	3162
05-11-79	(210)	(*)	(27.5)	(5.1)	(*)	(243)	2902
05-12-79	184	*	21.4	5.3	*	211	3193
05-13-79	172	*	24.0	4.9	*	201	3103
05-14-79	174	*	19.7	4.6	*	198	2907
05-15-79	175	*	27.0	5.4	*	207	3135
05-16-79	172	*	23.0	4.8	*	200	3115
05-17-79	167	*	21.7	5.5	*	194	2994
05-18-79	174	1.5	20.2	5.4	*	201	3161
05-20-79	257	2.2	30.3	6.1	*	296	2873
05-21-79	248	1.9	30.7	6.1	*	287	2953
05-22-79	203	1.3	27.5	5.3	*	237	2885

TABLE S11. (continued)

Date	Tetra- and Trihalomethanes (ppb)						
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	NPTOC (ppb)
05-23-79	171	*	22.4	4.4	*	198	2875
05-24-79	204	*	25.1	4.6	*	230	3011
05-25-79	179	*	22.4	4.5	*	206	3049
05-27-79	179	*	22.1	4.5	*	206	2891
05-28-79	187	*	23.0	4.5	*	215	2939
05-29-79	194	*	22.9	4.6	*	222	2966
05-30-79	203	*	24.5	5.3	*	233	3011
05-31-79	209	*	26.0	5.5	*	241	3107
06-01-79	208	*	25.7	5.3	*	239	3016
06-03-79	217	*	26.8	5.7	*	250	2999
06-04-79	214	*	26.8	6.0	*	247	2909
06-05-79	204	*	24.5	5.2	*	234	3005
06-06-79	212	*	25.1	5.2	*	242	3102
06-07-79	(215)	(*)	(25.0)	(5.9)	(*)	(245)	2856
06-08-79	217	*	24.8	6.6	*	248	2912
06-10-79	201	*	23.6	6.5	*	231	2621
06-11-79	171	*	21.4	6.3	*	199	2545
06-12-79	159	*	20.9	6.2	*	186	2631
06-13-79	176	*	22.8	7.4	*	206	2356
06-14-79	182	*	21.2	6.7	*	210	2382
06-15-79	167	*	19.4	6.0	*	192	2410
06-16-79	186	*	20.8	7.1	*	214	2307
06-18-79	183	*	20.9	6.7	*	211	2385
06-19-79	175	*	19.4	5.9	*	200	2367
06-20-79	180	*	21.1	6.4	*	208	2421
06-21-79	147	*	19.5	6.5	*	173	(2348)
06-22-79	156	*	21.0	6.7	*	184	2257
06-23-79	167.	*	21.8	7.4	*	196	2298
06-25-79	165	*	26.5	9.4	*	201	2332
06-26-79	152	*	26.3	9.6	*	188	2366
06-27-79	158	*	28.3	10.2	*	197	2423
06-28-79	178	*	29.6	10.5	(*)	218	2463
06-29-79	(210)	(*)	(27.8)	(11.2)	(*)	(249)	2533
06-30-79	241	*	25.9	11.8	*	279	2671
07-02-79	190	*	27.9	8.3	*	226	2543
07-03-79	189	*	27.7	10.2	*	227	2323
07-05-79	192	*	30.1	11.2	*	233	2379
07-06-79	163	*	28.2	8.6	*	200	2281
07-07-79	180	*	30.1	12.2	0.6	223	2488
07-09-79	191	*	47.0	12.1	0.6	251	2204
07-10-79	156	0.6	25.9	9.7	*	193	2227
07-12-79	131	*	22.4	9.0	*	162	2191
07-13-79	152	*	24.0	10.0	*	186	2120
07-14-79	138	*	23.6	9.9	*	172	2206

TABLE S11. (continued)

Date	Tetra- and Trihalomethanes (ppb)						NPTOC (ppb)
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	
07-16-79	170	*	30.1	13.1	0.7	214	2260
07-17-79	172	*	31.2	13.5	*	217	2520
07-18-79	(172)	(*)	(28.3)	(10.5)	*	(211)	2454
07-19-79	172	*	25.3	7.4	*	205	2731
07-20-79	173	1.5	34.9	11.9	*	221	2578
07-21-79	191	2.2	32.8	10.5	*	237	2746
07-23-79	172	*	25.3	7.4	*	205	2379
07-24-79	168	*	27.0	8.9	*	204	2380
07-25-79	169	*	24.0	8.2	*	201	2438
07-26-79	167	*	25.1	9.6	*	202	2400
07-27-79	181	*	28.7	10.1	*	220	1782
07-29-79	183	*	29.5	10.9	*	223	1940
07-30-79	189	*	28.7	8.9	*	227	2221
07-31-79	178	*	27.1	9.3	*	214	1828
08-01-79	(185)	(*)	(28.0)	(9.4)	(*)	(222)	1654
08-02-79	191	*	28.9	9.5	*	229	1876
08-05-79	176	*	27.7	9.8	*	214	1867
08-06-79	192	*	30.5	10.4	*	233	1963
08-07-79	(199)	(*)	(29.1)	(10.2)	*	(238)	2096
08-08-79	206	*	27.6	9.9	*	244	1959
08-09-79	173	*	22.6	8.1	*	204	1952
08-10-79	198	*	27.5	10.1	*	236	1854
08-12-79	184	*	28.8	12.3	*	225	1774
08-13-79	195	*	28.6	12.0	*	236	1801
08-14-79	208	*	27.0	9.9	*	245	1919
08-15-79	230	*	28.4	10.1	*	269	2127
08-16-79	214	*	26.4	9.2	*	250	2020
08-17-79	209	*	26.3	8.2	*	244	2105
08-19-79	230	*	26.7	8.7	*	265	2198
08-20-79	181	*	23.8	14.2	*	219	2304
08-21-79	169	*	20.3	5.9	*	195	2357
08-22-79	172	*	19.6	5.2	*	197	2076
08-23-79	186	*	17.5	4.2	*	208	2070
08-24-79	171	*	17.7	4.9	*	194	2052
08-25-79	180	*	18.0	5.7	*	204	2068
08-27-79	178	*	16.8	5.2	*	200	2222
08-28-79	154	*	17.0	5.4	*	176	2399
08-29-79	146	*	17.1	5.2	*	168	2472
08-30-79	143	*	16.9	5.3	*	165	2453
08-31-79	152	*	18.9	6.3	*	177	2276
09-02-79	115	*	15.2	5.7	*	136	2068
09-04-79	124	*	20.4	7.9	*	152	2250
09-05-79	126	*	20.8	8.3	*	155	2325
09-06-79	129	*	21.6	8.2	*	159	2202
09-07-79	111	*	18.7	7.3	*	137	2103

TABLE S11. (continued)

Date	Tetra- and Trihalomethanes (ppb)						
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	NPTOC (ppb)
09-08-79	126	*	19.8	7.8	*	154	2238
09-09-79	120	*	20.3	8.7	0.9	150	2180
09-10-79	124	*	19.1	7.7	*	151	2172
09-11-79	122	0.7	17.5	7.1	*	147	2144
09-14-79	125	*	17.3	6.9	*	150	2019
09-15-79	130	*	18.6	7.6	0.5	157	2059
09-16-79	(138)	(*)	(19.4)	(7.1)	(*)	(165)	2341
09-17-79	145	*	20.1	8.2	*	173	2327
09-18-79	124	*	16.3	7.6	*	148	2396
09-19-79	128	*	16.0	5.9	*	150	2021
09-20-79	127	*	17.6	6.6	*	151	2053
09-21-79	126	*	18.7	8.8	*	153	(2075)
09-23-79	109	*	15.4	5.5	*	130	2104
09-24-79	114	*	16.1	5.9	*	136	1966
09-25-79	106	*	16.6	6.4	*	129	2163
09-26-79	121	*	17.6	6.6	*	145	2080
09-27-79	118	*	19.4	7.0	*	144	2074
09-28-79	122	*	17.8	5.9	*	146	2255
09-30-79	110	*	16.4	6.3	*	133	2025
10-01-79	116	*	16.0	6.0	*	138	1890
10-02-79	107	*	13.9	5.2	*	126	2136
10-03-79	114	*	13.9	5.1	*	133	1993
10-04-79	200	*	34.7	10.4	*	245	2012
10-05-79	(206)	(*)	(34.1)	(9.6)	(*)	(250)	(2107)
10-07-79	212	*	33.4	8.7	*	255	2202
10-08-79	211	*	28.1	9.6	*	249	2203
10-09-79	219	*	18.2	7.4	*	245	2361
10-10-79	216	*	28.7	8.3	*	253	2078
10-11-79	211	*	25.6	7.1	*	244	2125
10-12-79	171	*	19.9	6.4	*	197	2239
10-14-79	180	*	23.5	8.4	*	212	2282
10-15-79	158	*	20.3	7.5	*	186	2269
10-16-79	150	*	26.5	8.9	*	185	2083
10-17-79	160	*	19.4	7.0	*	186	2397
10-18-79	137	*	16.4	6.1	*	160	2172
10-19-79	121	*	14.1	*	*	135	2328
10-22-79	196	*	31.2	9.8	*	237	2214
10-23-79	189	*	29.1	11.1	*	229	2119
10-24-79	186	*	26.4	9.7	*	222	2246
10-25-79	176	*	26.1	10.8	*	213	2245
10-28-79	150	*	22.6	8.8	*	181	2169
10-29-79	153	*	24.5	9.4	*	187	2146
10-30-79	114	*	22.7	8.5	*	146	2026
10-31-79	96	*	17.6	7.1	*	121	2241

TABLE S11. (continued)

Date	Tetra- and Trihalomethanes (ppb)						
	$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total T-,THM	NPTOC (ppb)
11-01-79	111	*	22.7	8.5	*	142	1904
11-04-79	109	*	21.8	8.7	*	140	2141
11-05-79	85	*	17.2	7.1	*	109	2123
11-07-79	85	*	19.5	7.4	*	112	2208
11-11-79	95	*	25.3	9.3	*	130	2122
11-14-79	83	*	23.4	9.0	*	114	2215
11-19-79	93	*	20.3	7.6	*	121	2427

* T-,THM concentration <0.5 ppb.
+ Parentheses denote average of day before and day after.

TABLE S12. ORGANIC CHEMICAL DATA
Unit: Argenion Bacteriostatic, Run No. 2-10-1
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM[1] (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-27-79	20	38.6 (85)	* (*)	4.1 (12.4)	1.3 (3.0)	* (*)	44 (100)	56	2619 (2672)	2
03-09-79	1270	97.1 (98)	* (*)	9.2 (10.6)	1.8 (2.0)	* (*)	108 (111)	3	2558 (2646)	3
03-19-79	2999	105 (95)	* (*)	10.5 (10.5)	1.6 (1.9)	* (*)	117 (106)	0	2569 (2872)	11
03-28-79	4550	115 (87)	* (*)	23.5 (12.5)	3.8 (3.0)	* (*)	142 (103)	--	2439 (2758)	13
04-07-79	6321	180 (192)	* (*)	22.0 (25.0)	4.0 (5.0)	* (*)	206 (222)	7	2873 (2837)	0
Average T-,THM and NPTOC levels during test period							129		2607	

*T-,THM concentration <0.5 ppb

TABLE S13. ORGANIC CHEMICAL DATA
Unit: Argenion Bacteriostatic, Run No. 2-10-2
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-28-79	8	30.6 (99)	* (*)	2.8 (12.7)	1.1 (2.7)	* (*)	35 (115)	70	3233 (2572)	--
03-10-79	410	58 (85)	* (*)	4.9 (10.7)	1.0 (1.4)	* (*)	64 (97)	34	2787 (2555)	0
03-20-79	865	81.4 (99)	* (*)	6.7 (9.7)	1.1 (1.8)	* (*)	89 (110)	19	2474 (2591)	8
03-30-79	1295	122 (139)	* (*)	14.0 (21.0)	3.0 (4.0)	* (*)	139 (164)	15	2253 (2416)	7
04-04-79	1655	131 (162)	* (*)	14.0 (22.0)	3.0 (5.0)	* (*)	148 (189)	22	2571 (2630)	2
Averagt T-,THM and NPTOC levels during test period							125		2596	

*T-,THM concentration <0.5 ppb

TABLE S14. ORGANIC CHEMICAL DATA
Unit: Argenion Bacteriostatic, Run No. 2-10-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-15-79	8	48 (156)	* (*)	7.2 (14.9)	1.5 (2.9)	* (*)	57 (174)	67	3245 (3045)	0
04-30-79	547	178 (213)	* (*)	12.2 (23.7)	2.0 (5.1)	* (*)	192 (242)	21	2928 (2844)	0
05-14-79	1106	170 (174)	* (*)	20.3 (19.7)	4.9 (4.6)	* *	195 (198)	2	2907 (2907)	0
05-23-79	1485	164 (171)	* (*)	18.1 (22.4)	3.4 (4.4)	* *	186 (198)	6	2739 (2875)	5
06-06-79	2162	179 (212)	* (*)	17.8 (25.1)	2.9 (5.2)	* (*)	200 (242)	17	3106 (3102)	0
Average T-,THM and NPTOC levels during test period							236		3018	

*T-,THM concentration <0.5 ppb

TABLE S15. ORGANIC CHEMICAL DATA
Unit: Aquacell Bacteriostatic, Run No. 2-21-1
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-11-79	25	7.1	*	*	*	*	7	98	1980	32
		(210)	(*)	(27.5)	(5.1)	(*)	(243)		(2902)	
05-12-79	316	16.7	*	*	*	*	17	92	2283	28
		(184)	(*)	(21.4)	(5.3)	(*)	(211)		(3193)	
05-14-79	887	52	*	6.9	1.6	*	61	70	2452	16
		(174)	(*)	(19.7)	(4.6)	(*)	(198)		(2907)	
05-20-79	2008	116	*	22.7	2.2	*	141	52	2683	7
		(257)	(2.2)	(30.3)	(6.1)	(*)	(296)		(2873)	
05-21-79	2277	149	*	16.5	2.4	*	168	41	2730	8
		(248)	(1.9)	(30.7)	(6.1)	(*)	(287)		(2953)	
Average T-,THM and NPTOC levels during test period							224		3034	

*T-THM concentration <0.5 ppb

TABLE S16. ORGANIC CHEMICAL DATA
Unit: Aquacell Bacteriostatic, Run No. 2-21-2
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM; (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-23-79	26	3.4 (172)	* (*)	1.4 (25.3)	0.7 (7.4)	* (*)	6 (205)	97	2168 (2379)	9
07-30-79	522	13 (189)	* (*)	* (28.7)	0.8 (8.9)	* (*)	14 (227)	94	1921 (2221)	14
08-06-79	1008	33 (192)	* (*)	0.9 (30.5)	0.8 (10.4)	* (*)	35 (223)	85	1343 (1963)	32
08-16-79	1531	42 (214)	* (*)	1.2 (26.4)	0.9 (9.2)	* (*)	44 (250)	82	1704 (2020)	16
08-23-79	2006	62 (186)	* (*)	2.4 (17.5)	0.8 (4.2)	* (*)	66 (208)	68	1658 (2070)	20
Average T-,THM and NPTOC levels during test period							225		2050	

*T-,THM concentration <0.5 ppb

TABLE S17. ORGANIC CHEMICAL DATA
Unit: Aquacell Bacteriostatic, Run No. 2-21-3
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-24-79	17	2.3 (171)	* (*)	* (17.7)	* (4.9)	* (*)	2 (194)	99	2147 (2052)	0
08-31-79	477	7.1 (152)	* (*)	* (18.9)	* (6.3)	* (*)	7 (177)	96	1456 (2276)	36
09-08-79	1040	19 (126)	* (*)	* (19.8)	0.6 (7.8)	* (*)	20 (154)	87	1744 (2238)	22
09-19-79	1556	22 (128)	* (*)	* (16.0)	0.6 (5.9)	* (*)	23 (150)	83	1592 (2021)	21
09-23-79	1805	32 (109)	* (*)	1.1 (15.4)	0.7 (5.5)	* (*)	34 (130)	74	1590 (2104)	24
Average T-,THM and NPTOC levels during test period							160		2200	

*T-THM concentration <0.5 ppb

TABLE S18. ORGANIC CHEMICAL DATA
Unit: Aqualux, Model CB-2, Run No. 2-30-1
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-04-79	172	3.4	*	*	*	*	3	98	591	74
		(124)	(*)	(20.4)	(7.9)	(*)	(152)		(2250)	
09-06-79	513	0.7	*	*	*	*	1	99	1716	22
		(129)	(*)	(21.6)	(8.2)	(*)	(159)		(2202)	
09-10-79	1255	2.4	*	*	*	*	2	98	2072	5
		(124)	(*)	(19.1)	(7.7)	(*)	(151)		(2172)	
09-11-79	1543	5.0	*	*	*	0.5	5.5	96	1848	14
		(122)	(0.7)	(17.5)	(7.1)	(*)	(147)		(2144)	
09-14-79	2401	13.4	*	*	*	*	13	91	1901	6
		(125)	(*)	(17.3)	(6.9)	(*)	(150)		(2019)	
Average T-,THM and NPTOC levels during test period							149		2181	

*T-,THM concentration <0.5 ppb

TABLE S19. ORGANIC CHEMICAL DATA
Unit: Aqualux, Model CB-2, Run No. 2-30-2
Ambient Water Test at 0.3 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-14-79	16	8	*	*	1.6	*	10	93	1296	36
		(125)	(*)	(17.3)	(6.9)	(*)	(150)		(2019)	
09-18-79	516	1.8	*	*	0.6	*	2	99	1563	35
		(124)	(*)	(16.3)	(7.6)	(*)	(148)		(2396)	
09-25-79	1004	1.5	*	*	*	*	1.5	99	1976	9
		(106)	(*)	(16.6)	(6.4)	(*)	(129)		(2163)	
10-04-79	1560	*	*	*	*	*	*	99	1778	12
		(200)	(*)	(34.7)	(10.4)	(*)	(245)		(2012)	
10-11-79	1966	*	*	*	*	*	*	99	1892	11
		(211)	(*)	(25.6)	(7.1)	(*)	(244)		(2125)	
Average T-,THM and NPTOC levels during test period							174		2123	

*T-,THM concentration <0.5 ppb

TABLE S20. ORGANIC CHEMICAL DATA
Unit: Aqualux, Model CB-2, Run No. 2-30-3
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-16-79	15	* (138)	* (*)	* (19.4)	* (7.1)	* (*)	* (165)	99	613 (2341)	73
09-23-79	527	0.9 (109)	* (*)	* (15.4)	* (5.5)	* (*)	1 (130)	99	1742 (2104)	17
10-02-79	1053	1.1 (107)	* (*)	* (13.9)	0.5 (5.2)	* (*)	1 (126)	99	1768 (2136)	17
10-08-79	1527	* (211)	* (*)	* (28.1)	* (9.6)	* (*)	* (249)	99	1962 (2203)	11
10-15-79	1984	1.2 (158)	* (*)	* (20.3)	* (7.5)	* (*)	1 (186)	99	2089 (2269)	7
Average T-,THM and NPTOC levels during test period							178		2145	

*T-,THM concentration <0.5 ppb

TABLE S21. ORGANIC CHEMICAL DATA
Unit: Continental, Model 350, Run No. 2-29-1
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-21-79	24	* (169)	* (*)	* (20.3)	* (5.9)	* (*)	* (195)	99	165 (2357)	93
08-22-79	87	0.6 (172)	* (*)	* (19.6)	0.5 (5.2)	* (*)	1.1 (197)	99	104 (2076)	95
08-25-79	277	* (180)	* (*)	* (18.0)	* (5.7)	* (*)	* (204)	99	397 (2068)	81
08-28-79	351	* (154)	* (*)	* (17.0)	* (5.4)	* (*)	* (176)	99	509 (2399)	79
08-31-79	588	* (152)	* (*)	* (18.9)	* (6.3)	* (*)	* (177)	99	311 (2276)	86
09-02-79	780	* (115)	* (*)	* (15.2)	* (5.7)	* (*)	* (136)	99	270 (2068)	87
Average T-,THM and NPTOC levels during test period							184		2228	

*T-THM concentration <0.5 ppb

TABLE S22. ORGANIC CHEMICAL DATA
Unit: Continental, Model 350, Run No. 2-29-2
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-03-79	15.2	2 (114)	* (*)	* (13.9)	* (5.1)	* (*)	2 (133)	98	164 (1993)	92
10-08-79	201	* (211)	* (*)	* (28.1)	* (9.6)	* (*)	* (249)	99	386 (2203)	82
10-10-79	316	* (216)	* (*)	* (28.7)	* (8.3)	* (*)	* (253)	99	199 (2078)	90
10-19-79	587	* (121)	* (*)	* (14.1)	* (*)	* (*)	* (135)	99	277 (2328)	88
10-23-79	727	* (198)	* (*)	* (29.1)	* (11.1)	* (*)	* (229)	99	302 (2119)	86
Average T-,THM and NPTOC levels during test period							212		2183	

*T-,THM concentration <0.5 ppb

TABLE S23. ORGANIC CHEMICAL DATA
Unit: Continental Model 350, Run No. 2-29-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-04-79	30	0.7 (200)	* (*)	* (34.7)	* (10.4)	* (*)	1 (245)	99	214 (2012)	89
10-07-79	216	* (212)	* (*)	* (33.4)	* (8.7)	* (*)	* (255)	99	400 (2202)	81
10-10-79	407	* (216)	* (*)	* (28.7)	* (8.3)	* (*)	* (253)	99	272 (2078)	87
10-16-79	574	* (150)	* (*)	* (26.5)	* (8.9)	* (*)	* (185)	99	257 (2088)	88
10-19-79	782	2 (121)	* (*)	* (14.1)	* (*)	* (*)	2 (135)	99	377 (2328)	84
Average T-,THM and NPTOC levels during test period							214		2205	

*T-,THM concentration <0.5 ppb

TABLE S24. ORGANIC CHEMICAL DATA
Unit: Culligan, Model SG-2, Run No. 2-26-1
Ambient Water Test at 1.0 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-19-79	6	14 (172)	* (*)	* (25.3)	* (7.4)	* (*)	14 (205)	93	>10000[a] (2731)	--
07-21-79	1096	4 (191)	* (2.2)	* (32.8)	* (10.5)	* (*)	4 (237)	98	2425 (2746)	11
07-26-79	2110	9 (167)	* (*)	* (25.1)	0.6 (9.6)	* (*)	10 (202)	95	2044 (2400)	15
07-29-79	3400	27 (183)	* (*)	* (29.5)	* (10.9)	* (*)	27 (223)	88	1666 (1940)	14
08-01-79	3810	27 (185)	* (*)	1.2 (28.0)	* (9.4)	* (*)	27 (222)	88	1665 (1654)	0
Average T-,THM and NPTOC levels during test period							215		2256	

*T-,THM concentration <0.5 ppb

[a]Low T-,THM removal may have resulted from insufficient flush time recommended by the manufacturer.

TABLE S25. ORGANIC CHEMICAL DATA
Unit: Culligan, Model SG-2, Run No. 2-26-2
Ambient Water Test at 1.0 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-01-79	15	0.5 (185)	* (*)	* (28.0)	* (9.4)	* (*)	0.5 (222)	99	>5000[a] (1654)	--
08-10-79	999	* (198)	* (*)	* (27.5)	* (10.1)	* (*)	* (236)	99	1632 (1854)	12
08-21-79	2155	8.4 (169)	* (*)	* (20.3)	* (5.9)	* (*)	9 (195)	95	1884 (2357)	20
08-28-79	3028	42 (154)	* (*)	* (17.0)	* (5.4)	* (*)	42 (176)	76	2161 (2399)	10
09-05-79	4055	94 (126)	* (*)	1.2 (20.8)	* (8.3)	* (*)	96 (155)	38	1659 (2325)	29
Average T-,THM and NPTOC levels during test period							201		2088	

*T-,THM concentration <0.5 ppb

[a]High TOC value most likely due to insufficient flush time recommended by manufacturer.

TABLE S26. ORGANIC CHEMICAL DATA
Unit: Culligan, Model SG-2, Run No. 2-26-3
Ambient Water Test at 1.0 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-08-79	4	* (206)	* (*)	* (27.6)	* (9.9)	* (*)	* (244)	99	>5000[a] (1959)	--
08-19-79	1144	* (230)	* (*)	* (26.7)	* (8.7)	* (*)	* (265)	99	1537 (2198)	30
08-29-79	2103	1.3 (146)	* (*)	* (17.1)	* (5.2)	* (*)	1 (168)	99	1728 (2472)	30
09-05-79	3074	18 (126)	* (*)	* (20.8)	* (8.3)	* (*)	18 (155)	88	1644 (2325)	29
09-14-79	4303	30 (125)	* (*)	* (17.3)	* (6.9)	* (*)	30 (150)	80	1656 (2019)	18
Average T-,THM and NPTOC levels during test period							194		2134	

*T-,THM concentration <0.5 ppb

[a]High TOC value most likely due to insufficient flush time recommended by manufacturer.

TABLE S27. ORGANIC CHEMICAL DATA
Unit: Everpure, Model QC4-THM, Run No. 2-7-1
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-15-79	10	* (130)	* (*)	* (18.6)	* (7.6)	* (0.5)	* (157)	99	518 (2059)	75
09-19-79	304	* (128)	* (*)	* (16.0)	* (5.9)	* (*)	* (150)	99	950 (2021)	53
09-23-79	501	* (109)	* (*)	* (15.4)	* (5.5)	* (*)	* (130)	99	1031 (2104)	51
09-26-79	807	1.4 (121)	* (*)	* (17.6)	* (6.6)	* (*)	1 (145)	99	1146 (2080)	45
09-28-79	1026	2.6 (122)	* (*)	* (17.8)	* (5.9)	* (*)	3 (146)	98	1234 (2255)	45
Average T-,THM and NPTOC levels during test period							148		2147	

*T-,THM concentration <0.5 ppb

TABLE S28. ORGANIC CHEMICAL DATA
Unit: Everpure Model QC4-THM, Run No. 2-7-2
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-28-79	10	* (122)	* (*)	* (17.8)	* (5.9)	* (*)	* (146)	99	376 (2255)	83
10-01-79	248	1.1 (116)	* (*)	* (16.0)	* (6.0)	* (*)	1 (138)	99	866 (1890)	54
10-07-79	562	2.0 (212)	* (*)	* (33.4)	* (8.7)	* (*)	2 (255)	99	1102 (2202)	50
10-14-79	837	* (180)	* (*)	* (23.5)	* (8.4)	* (*)	* (212)	99	1217 (2282)	47
10-17-79	979	* (160)	* (*)	* (19.4)	* (7.0)	* (*)	* (186)	99	1206 (2397)	50
Average T-,THM and NPTOC levels during test period							199		2157	

*T-,THM concentration <0.5 ppb

TABLE S29. ORGANIC CHEMICAL DATA
Unit: Everpure, Model QC4-THM, Run No. 2-7-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-15-79	9	* (158)	* (*)	* (20.3)	* (7.5)	* (*)	* 186	99	455 (2269)	80
10-22-79	385	* (196)	* (*)	* (31.2)	* (9.8)	* (*)	* (237)	99	1169 (2214)	47
10-24-79	508	* (186)	* (*)	* (26.4)	* (9.7)	* (*)	* (222)	99	1088 (2246)	52
11-01-79	800	1.0 (111)	* (*)	* (22.7)	* (*)	* (8.5)	1 (142)	99	1056 (1904)	45
11-05-79	988	1.6 (85)	* (*)	* (17.2)	* (7.1)	* (*)	2 (109)	98	1217 (2123)	43
Average T-,THM and NPTOC levels during test period							174		2151	

*T-,THM concentration <0.5 ppb

TABLE S30. ORGANIC CHEMICAL DATA
Unit: Mariner Renaturalizer, Run No. 2-19-1
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-02-79	14	27 (228)	* (2.1)	8.5 (31.4)	1.7 (1.5)	* (*)	37 (267)	86	1622 (3125)	48
05-06-79	695	76.8 (286)	1.3 (1.3)	41.4 (41.4)	* (6.5)	* (*)	120 (335)	64	2190 (3071)	29
05-08-79	1309	131 (264)	1.0 (1.6)	14.9 (36.4)	1.1 (6.7)	* (*)	148 (309)	52	2714 (3208)	15
05-12-79	1945	116 (184)	* (*)	11.2 (21.4)	2.3 (5.3)	* (*)	130 (211)	38	2806 (3193)	12
05-17-79	2765	108 (167)	* (*)	7.8 (21.7)	6.4 (5.5)	* (*)	122 (134)	37	2886 (2994)	4
Average T-,THM and NPTOC levels during test period							253		3104	

*T-,THM concentration <0.5 ppb

TABLE S31. ORGANIC CHEMICAL DATA
Unit: Mariner Renaturalizer, Run No. 2-19-2
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM[1] (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-19-79	15	20 (172)	* (*)	* (25.3)	* (7.4)	* (*)	20 (205)	90	1054 (2731)	61
08-21-79	1279	1.9 (184)	* (*)	* (28.8)	* (12.3)	* (*)	2 (225)	99	1150 (1774)	35
08-19-79	1479	104 (230)	* (*)	7.6 (26.7)	2.0 (8.7)	* (*)	114 (265)	57	1840 (2198)	16
08-31-79	2522	142 (152)	* (*)	14.2 (18.9)	3.5 (6.3)	* (*)	160 (177)	10	2337 (2276)	0
09-02-79	3704	110 (115)	(*) (*)	14.3 (15.2)	4.8 (5.7)	(*) (*)	129 (136)	5	1918 (2068)	7
Average T-,THM and NPTOC levels during test period							214		2142	

*T-THM concentration <0.5 ppb

TABLE S32. ORGANIC CHEMICAL DATA
Unit: Mariner Renaturalizer, Run No. 2-19-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-27-79	34	20 (181)	* (*)	1.6 (28.7)	1.0 (10.1)	* (*)	23 (220)	90	1129 (1782)	37
08-24-79	751	70 (171)	* (*)	2.9 (17.7)	0.9 (4.9)	* (*)	74 (194)	62	1687 (2052)	18
09-23-79	1523	78 (109)	* (*)	5.7 (15.4)	1.4 (5.5)	* (*)	86 (130)	34	1788 (2104)	15
10-11-79	2243	190 (211)	* (*)	15.3 (25.6)	4.1 (7.1)	* (*)	210 (244)	14	1963 (2125)	8
10-24-79	3064	175 (186)	* (*)	19.5 (26.4)	5.5 (9.7)	* (*)	201 (222)	9	2103 (2246)	6
Average T-,THM and NPTOC levels during test period							192		2117	

*T-,THM concentration <0.5 ppb

TABLE S33. ORGANIC CHEMICAL DATA
Unit: Polarisdynamic, Run No. 2-9-1
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-27-79	18	6.4 (85)	* (*)	* (12.4)	0.6 (3.0)	* (*)	7 (100)	93	1635 (2672)	39
03-03-79	819	19.4 (105)	* (*)	1.5 (14.5)	* (2.6)	* (*)	21 (122)	83	2276 (2706)	16
03-06-79	1320	51.1 (114)	* (*)	2.6 (16.2)	1.0 (4.0)	* (*)	55 (134)	59	2186 (2607)	16
03-12-79	2120	78.2 (103)	* (*)	4.4 (8.4)	1.1 (1.6)	* (*)	84 (113)	26	2543 (2746)	7
03-15-79	2520	75 (107)	* (*)	3.6 (8.7)	0.9 (1.6)	* (*)	80 (117)	32	2159 (2482)	13
Average T-,THM and NPTOC levels during test period							116		2625	

*T-,THM concentration <0.5

TABLE S34. ORGANIC CHEMICAL DATA
Unit: Polarisdynamic, Run No. 2-9-2
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-27-79	17	3.9 (85)	* (*)	* (12.4)	0.6 (3.0)	* (*)	5 (100)	95	1667 (2672)	38
03-14-79	527	20 (101)	* (*)	* (9.1)	* (1.3)	* (*)	20 (111)	82	2053 (2627)	22
04-02-79	1294	73 (148)	* (*)	4.0 (19.0)	1.3 (4.0)	* (*)	78 (171)	54	2295 (2728)	13
04-16-79	1896	123 (143)	* (*)	14.3 (12.8)	1.3 (3.8)	* (*)	129 (160)	21	2594 (2934)	12
04-30-79	2450	128 (213)	* (*)	14.9 (23.7)	* (5.1)	* (*)	143 (242)	41	2603 (2844)	8
Average T-,THM and NPTOC levels during test period							156		2737	

*T-,THM concentration <0.5 ppb

TABLE S35. ORGANIC CHEMICAL DATA
Unit: Polarisdynamic. Run No. 2-9-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
2-27-79	13	2.4 (85)	* (*)	* (12.4)	* (3.0)	* (*)	2 (100)	98	2028 (2672)	24
3-17-79	700	18.7 (101)	* (*)	* (9.3)	1.4 (1.5)	* (*)	20 (112)	82	2051 (2572)	20
3-31-79	1295	64 (166)	* (*)	13.7 (30.0)	0.7 (4.6)	* *	78 (201)	61	1980 (2462)	20
4-16-79	2003	106 (143)	* (*)	5.0 (12.8)	1.2 (3.8)	* (*)	112 (160)	30	2496 (2934)	15
4-30-79	2591	175 (213)	* (*)	12.0 (23.7)	2.1 (5.1)	* (*)	189 (242)	22	2611 (2844)	8
Average T-,THM and NPTOC levels during test period							156		2737	

*T-,THM concentration <0.5 ppb

TABLE S36. ORGANIC CHEMICAL DATA
Unit: Purogen, Run No. 2-16-1
Ambient Water Test at 1.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-19-79	34	52 (142)	* (*)	9.4 (20.0)	0.7 (*)	* (*)	62 (162)	62	2235 (2627)	15
04-21-79	550	120 (212)	* (*)	10.2 (25.6)	2.8 (3.9)	* (*)	133 (241)	45	2464 (2779)	11
04-27-79	1436	147 (234)	* (*)	12.4 (30.4)	2.2 (4.5)	* (*)	162 (269)	40	2763 (3092)	11
04-29-79	2046	197 (228)	* (*)	16.2 (21.0)	3.6 (4.3)	* (*)	217 (253)	14	3058 (2914)	0
05-01-79	2533	228 (233)	1.2 (*)	18.9 (17.0)	5.5 (7.8)	* (*)	254 (258)	2	3085 (3124)	1
Average T-,THM and NPTOC levels during test period							239		2955	

*T-,THM concentration <0.5 ppb

TABLE S37. ORGANIC CHEMICAL DATA
Unit: Purogen, Run No. 2-16-2
Ambient Water Test at 1.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM, (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-25-79	17	31.9 (180)	* (*)	1.3 18.0	0.9 (5.7)	* (*)	34 (204)	83	1565 (2068)	24
08-30-79	663	96 (143)	* (*)	8.4 (16.9)	2.4 (5.3)	* (*)	107 (165)	35	2279 (2453)	7
09-06-79	1235	86 (129)	* (*)	9.5 (21.6)	2.9 (8.2)	* (*)	98 (159)	38	2082 (2202)	5
09-11-79	1852	78 (122)	* (0.7)	9.1 (17.5)	3.4 (7.1)	* (*)	92 (147)	37	2220 (2144)	0
09-16-79	2520	94 (138)	* (*)	13.3 (19.4)	6.7 (7.1)	1.8 (*)	116 (165)	30	2201 (2341)	6
Average T-,THM and NPTOC levels during test period							161		2222	

*T-,THM concentration <0.5 ppb

TABLE S38. ORGANIC CHEMICAL DATA
Unit: Purogen, Run No. 2-16-3
Ambient Water Test at 1.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-10-79	17	29 (124)	* (*)	2.1 (19.1)	0.9 (7.7)	* (*)	32 (151)	79	1757 (2172)	19
09-15-79	662	91 (130)	* (*)	9.6 (18.6)	3.5 (7.6)	* (*)	115 (157)	27	1874 (2059)	9
09-23-79	1282	80 (109)	* (*)	9.2 (15.4)	3.1 (5.5)	* (*)	92 (130)	29	1983 (2104)	6
09-28-79	1933	79 (122)	* (*)	94 (17.8)	3.0 (5.9)	* (*)	82 (146)	44	2090 (2255)	7
10-04-79	2625	160 (200)	* (*)	16.7 (34.7)	4.5 (10.4)	* (*)	182 (245)	26	1922 (2012)	4
Average T-,THM and NPTOC levels during test period							150		2110	

*T-THM concentration <0.5 ppb

TABLE S39. ORGANIC CHEMICAL DATA
Unit: Rohm & Haas, Ambersorb® XE-340, Run No. 2-27-1
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-23-79	17	* (172)	* (*)	* (25.3)	* (7.4)	* (*)	* (205)	99	2261 (2379)	5
07-27-79	1162	13 (181)	* (*)	1.6 (28.7)	1.4 (10.1)	* (*)	22 (220)	90	1787 (1782)	0
07-29-79	2010	21 (183)	* (*)	0.7 (29.5)	0.9 (10.9)	* (*)	23 (223)	90	1880 (1940)	3
08-02-79	2860	27 (191)	* (*)	2.1 (28.9)	1.4 (9.5)	* (*)	31 (229)	86	2171 (1876)	--
08-05-79	4148	31 (176)	* (*)	2.3 (27.7)	1.3 (9.8)	* (*)	35 (214)	84	1319 (1867)	29
Average T-,THM and NPTOC levels during test period							215		2070	

*T-,THM concentration <0.5 ppb

TABLE S40. ORGANIC CHEMICAL DATA
Unit: Rohm & Haas, Ambersorb® XE-340, Run No. 2-27-2
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-15-79	28	* (230)	* (*)	* (28.4)	* (10.1)	* (*)	* (269)	99	1473 (2127)	31
08-21-79	892	5.9 (169)	* (*)	* (20.3)	0.6 (5.9)	* (*)	6 (195)	97	2397 (2257)	0
08-29-79	1870	8.9 (146)	* (*)	* (17.1)	* (5.2)	* (*)	9 (168)	95	2301 (2472)	6
09-04-79	2843	8.4 (124)	* (*)	* (20.4)	0.6 (7.9)	* (*)	9 (152)	94	2073 (2250)	8
09-08-79	3480	23 (126)	* (*)	1.3 (19.8)	0.9 (7.8)	* (*)	26 (154)	83	2208 (2238)	1
Average T-,THM and NPTOC levels during test period							192		2209	

*T-,THM concentration <0.5 ppb

TABLE S41. ORGANIC CHEMICAL DATA
Unit: Rohm & Haas, Ambersorb® XE-340, Run No. 2-27-3
Ambient Water Test at 0.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-27-79	26	3 (178)	* (*)	* (16.8)	* (5.2)	* (*)	3 (200)	99	2139 (2222)	4
09-09-79	1217	7 (120)	* (*)	* (20.3)	0.7 (8.7)	* (0.9)	8 (150)	95	2119 (2180)	3
09-14-79	1701	* (125)	* (*)	* (17.3)	* (6.9)	* (*)	* (150)	99	2009 (2019)	0
09-27-79	2673	6 (118)	* (*)	* (19.4)	0.8 (7.0)	* (*)	7 (144)	95	2003 (2074)	3
10-05-79	3370	5 (206)	* (*)	* (34.1)	* (9.6)	* (*)	5 (250)	98	2003 (2107)	5
Average T-,THM and NPTOC levels during test period							157		2165	

*T-,THM concentration <0.5 ppb

TABLE S42. ORGANIC CHEMICAL DATA
Unit: Seagull IV, Run No. 2-22-1
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-03-79	23	44 (114)	* (*)	3.8 (13.9)	1.5 (5.2)	* (*)	50 (133)	62[a]	894 (1993)	55
10-05-79	721	71 (206)	* (*)	* (34.1)	1.3 (9.6)	* (*)	72 (250)	71	1511 (2107)	28
10-09-79	1421	130 (219)	* (*)	3.4 (18.2)	1.4 (7.4)	* (*)	135 (245)	45	1888 (2361)	20
10-10-79	1562	110 (216)	* *	3.3 (28.7)	* (8.3)	* (*)	113 (253)	55	1764 (2078)	15
10-11-79	1633	164 (211)	* (*)	10.3 (25.6)	* (7.1)	* (*)	174 (244)	27	1761 (2125)	17
Average T-,THM and NPTOC levels during test period							234		2135	

*T-,THM concentration <0.5 ppb

[a]Low T-,THM value most likely due to insufficient flush time recommended by manufacturer.

TABLE S43. ORGANIC CHEMICAL DATA
Unit: Seagull IV, Run No. 2-22-2
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-29-79	27	* (194)	* (*)	* (22.9)	* (4.6)	* (*)	* (222)	99	492 (2966)	83
06-03-79	744	86 (217)	* (*)	* (26.8)	* (5.7)	* (*)	86 (250)	66	2325 (2999)	22
06-18-79	1590	191 (183)	* *	7.1 (20.9)	0.8 (6.7)	* (*)	199 (211)	6	1968 (2385)	17
07-05-79	2568	182 (192)	* (*)	13.2 (30.1)	1.6 (11.2)	* (*)	197 (233)	15	2194 (2379)	8
07-19-79	3147	162 (172)	* (*)	19.6 (25.3)	2.0 (7.4)	* (*)	184 (205)	10	2171 (2731)	21
Average T-,THM and NPTOC levels during test period							215		2376	

*T-,THM concentration <0.5 ppb

TABLE S44. ORGANIC CHEMICAL DATA
Unit: Seagull IV, Run No. 2-23-3
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-23-79	24	*	*	*	*	*	*	99	471	80
		(172)	(*)	(25.3)	(7.4)	(*)	(205)		(2379)	
07-31-79	536	20	*	*	*	*	20	91	1162	36
		(178)	(*)	(27.1)	(9.3)	(*)	(214)		(1828)	
08-07-79	889	115	*	0.9	0.8	*	117	51	1430	32
		(199)	(*)	(29.1)	(10.2)	(*)	(238)		(2096)	
08-12-79	1214	169	*	3.0	0.9	*	174	23	1375	22
		(184)	(*)	(28.8)	(12.3)	(*)	(225)		(1774)	
08-19-79	1710	172	*	8.7	1.0	*	182	31	1632	26
		(230)	(*)	(26.7)	(8.7)	(*)	(265)		(2198)	
Average T-,THM and NPTOC levels during test period							228		2023	

*T-THM concentration <0.5 ppb

TABLE S45. ORGANIC CHEMICAL DATA
Unit: Ultrapure Bacteriostatic, Run No. 2-20-1
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-11-79	24	15.8 (210)	* (*)	1.1 (27.5)	* (5.1)	* (*)	17 (243)	93	1504 (2902)	48
05-14-79	867	94 (174)	* (*)	10.1 (19.7)	2.0 (4.6)	* (*)	106 (198)	46	2427 (2907)	17
05-20-79	1650	178 (257)	* (2.2)	23.0 (30.3)	2.7 (6.1)	* (*)	204 (296)	31	2541 (2873)	12
05-23-79	2450	142 (171)	* (*)	13.5 (22.4)	2.2 (4.4)	* (*)	158 (198)	20	2486 (2875)	14
05-27-79	3515	159 (179)	* (*)	21.6 (22.1)	3.8 (4.5)	* (*)	184 (206)	6	2828 (2891)	2
Average T-,THM and NPTOC levels during test period							221		3003	

*T-,THM concentration <0.5 ppb

TABLE S46. ORGANIC CHEMICAL DATA
Unit: Ultrapure Bacteriostatic, Run No. 2-20-2
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-28-79	23	9.1 (187)	* (*)	* (23.0)	* (4.5)	* (*)	9 (215)	96	1283 (2939)	56
06-06-79	760	98 (212)	* (*)	4.7 (25.1)	* (5.2)	* (*)	103 (242)	57	2399 (3102)	23
06-16-79	1603	152 (186)	* (*)	9.4 (20.8)	1.9 (7.1)	* (*)	163 (214)	24	1943 (2307)	16
06-28-79	2366	131 (178)	* (*)	11.7 (29.6)	1.9 (10.5)	* (*)	145 (218)	33	2120 (2463)	14
07-07-79	2965	151 (180)	* (*)	15.3 (30.1)	2.9 (12.2)	* (0.6)	169 (223)	24	1687 (2488)	32
Average T-,THM and NPTOC levels during test period							220		2599	

*T-,THM concentration <0.5 ppb

TABLE S47. ORGANIC CHEMICAL DATA
Unit: Ultrapure Bacteriostatic, Run No. 2-20-3
Ambient Water Test at 0.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-16-79	23	19.3 (170)	* (*)	0.5 (30.1)	1.0 (13.1)	* (0.7)	21 (214)	90	1358 (2260)	40
07-26-79	822	96 (167)	* (*)	6.6 (25.1)	1.5 (9.6)	* (*)	104 (202)	49	1848 (2400)	23
08-05-79	1509	134 (176)	* (*)	10.8 (27.7)	2.0 (9.8)	* (*)	147 (214)	32	1807 (1867)	3
08-16-79	2302	165 (214)	* (*)	15.5 (26.4)	2.8 (9.2)	* (*)	183 (250)	27	1888 (2020)	6
Average T-,THM and NPTOC levels during test period							224		2130	

*T-,THM concentration <0.5 ppb

TABLE S48. ORGANIC CHEMICAL DATA
Unit: Waterco, Model AS-5, Run No. 2-13-1
Ambient Water Test at 2.4 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-09-79	110	67	*	7.0	2.0	*	76	56	7009[a]	--
		(153)	(*)	(13.0)	(4.9)	(*)	(171)		(2979)	
04-10-79	819	104	*	19.6	1.8	*	125	32	3347	0
		(154)	(*)	(26.3)	(3.8)	(*)	(184)		(3311)	
04-13-79	1270	122	*	21.4	2.1	*	146	6	3107	0
		(130)	(*)	(21.8)	(3.2)	(*)	(155)		(3095)	
04-15-79	2014	141	*	21.8	2.1	*	165	5	2892	5
		(156)	(*)	(14.9)	(2.9)	(*)	(174)		(3045)	
04-17-79	3020	126	*	19.1	1.9	*	147	0	3004	0
		(128)	(*)	(11.4)	(3.4)	(*)	(143)		(2995)	
Average T-,THM and NPTOC levels during test period							166		3116	

*T-,THM concentration <0.5 ppb

[a]High TOC value most likely due to insufficient flush time recommended by manufacturer.

TABLE S49. ORGANIC CHEMICAL DATA
Unit: Waterco, Model AS-5, Run No. 2-13-2
Ambient Water Test at 2.4 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
03-22-79	36	28.5 (115)	* (*)	1.8 (12.8)	1.1 (2.5)	* (*)	31 (130)	76	3070 (2505)	--
03-26-79	772	96 (88)	* (*)	8.4 (10.3)	2.0 (1.8)	* (*)	106 (100)	0	2734 (2802)	2
03-28-79	1141	59.8 (87)	* (*)	6.3 (12.5)	2.2 (3.0)	* (*)	68 (103)	39	2405 (2758)	13
04-02-79	1810	96 (148)	* (*)	11.7 (19.0)	2.5 (4.0)	* (*)	110 (171)	36	2598 (2728)	4
04-08-79	2898	143 (141)	* (*)	16.0 (21.0)	3.0 (3.2)	* (*)	162 (165)	2	2865 (2937)	2
Average T-,THM and NPTOC levels during test period							152		2597	

*T-,THM concentration <0.5 ppb

TABLE S50. ORGANIC CHEMICAL DATA
Unit: Waterco, Model AS-5, Run No. 2-13-3
Ambient Water Test at 2.4 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-20-79	33	47	*	2.9	0.7	*	51	78	10000[a]	--
		(198)	(*)	(26.4)	(3.6)	(*)	(228)		(2631)	
04-23-79	604	117	*	10.2	1.8	*	129	40	3469	0
		(185)	(*)	(27.8)	(3.3)	(*)	(216)		(3197)	
04-30-79	1397	176	*	13.9	3.1	*	193	20	3097	0
		(213)	(*)	(23.7)	(5.1)	(*)	(242)		(2844)	
05-03-79	1996	227	1.9	25.6	3.7	*	259	6	2873	8
		(237)	(2.0)	(31.9)	(5.7)	(*)	(277)		(3139)	
05-11-79	2494	Laboratory accident - sample not analyzed						--	--	--
		(210)	(*)	(27.5)	(5.1)	(*)	(243)		(2902)	
Average T-,THM and NPTOC levels during test period							262		3045	

*T-THM concentration <0.5 ppb

[a]High TOC value most likely due to insufficient flush time recommended by manufacturer.

TABLE S51. ORGANIC CHEMICAL DATA
Unit: Aquaguard, Model AGT-31, Run No. 2-31-1
Ambient Water Test at 0.21 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-03-79	1	5.0	*	*	0.6	*	6	95	1006	50
		(114)	(*)	(13.9)	(5.1)	(*)	(133)		(1993)	
10-05-79	191	160	*	12.3	5.7	*	178	29	1978	6
		(206)	(*)	(34.1)	(9.6)	(*)	(250)		(2107)	
10-09-79	390	170	*	12.3	5.8	*	188	23	2273	4
		(219)	(*)	(18.2)	(7.4)	(*)	(245)		(2361)	
10-10-79	434	139	*	13.3	4.3	*	157	38	2087	0
		(216)	(*)	(28.7)	(8.3)	(*)	(253)		(2078)	
10-11-79	490	144	*	13.6	4.7	*	162	34	2110	0
		(211)	(*)	(25.6)	(7.1)	(*)	(244)		(2125)	
Average T-,THM and NPTOC levels during test period							234		2135	

*T-,THM concentration <0.5 ppb

TABLE S52. ORGANIC CHEMICAL DATA
Unit: Aquaguard, Model AGT-31, Run No. 2-31-2
Ambient Water Test at 0.21 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-08-79	1	* (211)	* (*)	* (28.1)	* (9.6)	* (*)	* (249)	99	1118 (2203)	49
10-15-79	133	113 (158)	* (*)	10.2 (20.3)	3.6 (7.5)	* (*)	117 (186)	37	2111 (2269)	7
10-22-79	258	119 (196)	* (*)	11.9 (31.2)	4.7 (9.8)	* (*)	136 (237)	43	2112 (2214)	5
10-25-79	273	99 (176)	* (*)	9.8 (26.1)	4.0 (10.8)	* (*)	113 (213)	47	1935 (2245)	14
11-04-79	398	90 (109)	* (*)	14.8 (21.8)	5.0 (8.7)	* (*)	110 (140)	21	2100 (2141)	2
11-11-79	497	96 (95)	* (*)	18.4 (25.3)	6.1 (9.8)	* (*)	121 (130)	7	2044 (2122)	4
Average T-,THM and NPTOC levels during test period							184		2185	

*T-,THM concentration <0.5 ppb

TABLE S53. ORGANIC CHEMICAL DATA
Unit: Aquaguard, Model AGT-31, Run No. 2-31-3
Ambient Water Test at 0.21 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM,(ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
10-12-79	1	15 (171)	* (*)	1.6 (19.9)	1.0 (6.4)	* (*)	18 (197)	91	791 (2239)	65
10-18-79	139	81 (137)	* (*)	6.1 (16.4)	2.8 (6.1)	* (*)	90 (160)	44	1748 (2172)	20
10-22-79	251	127 (196)	* (*)	16.3 (31.2)	6.1 (9.8)	* (*)	149 (237)	37	2066 (2214)	7
10-25-79	276	120 (176)	* (*)	11.6 (26.1)	4.6 (10.8)	* (*)	127 (213)	41	2105 (2245)	6
11-04-79	410	84 (109)	* (*)	8.5 (21.8)	2.0 (8.7)	* (*)	95 (140)	32	2005 (2141)	6
11-11-79	504	88 (95)	* (*)	15.3 (25.3)	5.5 (9.8)	* (*)	109 (130)	16	1923 (2122)	9
Average T-,THM and NPTOC levels during test period							170		2184	

*T-,THM concentration <0.5 ppb

TABLE S54. ORGANIC CHEMICAL DATA
Unit: Concept Bacteriostatic, Run No. 2-14-1
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
03-23-79	1	41.5	*	2.2	1.0	*	45	63	1886	26
		(109)	(*)	(11.7)	(2.4)	(*)	(123)		(2557)	
03-26-79	13	85.2	*	14.2	1.9	*	102	0	2350	16
		(88)	(*)	(10.3)	(1.8)	(*)	(100)		(2802)	
03-28-79	20	133	*	15.1	2.6	*	151	--	2083	24
		(87)	(*)	(12.5)	(3.0)	(*)	(103)		(2758)	
04-08-79	30	180	*	23.0	4.0	*	203	--	2172	26
		(141)	(*)	(21.0)	(3.2)	(*)	(165)		(2937)	
Average T-,THM and NPTOC levels during test period							153		2603	

*T-THM concentration <0.5 ppb

TABLE S55. ORGANIC CHEMICAL DATA
Unit: Concept Bacteriostatic, Run No. 2-14-2
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-09-79	3	76	*	6.3	1.6	*	84	51	2761	7
		(153)	(*)	(13.0)	(4.9)	(*)	(171)		(2979)	
04-12-79	21	122	*	11.5	2.3	*	136	8	2715	17
		(125)	(*)	(21.9)	(1.7)	(*)	(148)		(3257)	
04-17-79	40	136	*	22.0	2.0	*	160	--	2380	21
		(128)	(*)	(11.4)	(3.4)	(*)	(143)		(2995)	
04-18-79	42	136	*	12.6	*	*	149	9	2491	20
		(149)	(*)	(11.5)	(3.0)	(*)	(164)		(3120)	
04-19-79	44	137	*	17.1	2.0	*	156	4	2632	0
		(142)	(*)	(20.0)	(*)	(*)	(162)		(2627)	
Average T-,THM and NPTOC levels during test period							165		3068	

*T-,THM concentration <0.5 ppb

TABLE S56. ORGANIC CHEMICAL DATA
Unit: Concept Bacteriostatic, Run No. 2-14-3
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-25-79	0	83	*	6.2	1.0	*	90	65	2641	1
		(227)	(*)	(26.7)	(4.3)	(*)	(258)		(2661)	
04-26-79	6	177	*	12.7	1.7	*	191	21	2482	20
		(218)	(*)	(19.9)	(4.0)	(*)	(242)		(3094)	
04-27-79	14	237	*	25.0	4.5	*	267	1	2914	6
		(234)	(*)	(30.4)	(4.5)	(*)	(269)		(3092)	
04-29-79	20	227	*	18.8	3.2	*	249	2	2589	11
		(228)	(*)	(21.0)	(4.3)	(*)	(253)		(2914)	
05-05-79	29	212	1.7	33.1	4.1	*	251	12	2737	13
		(250)	(1.7)	(29.0)	(5.3)	(*)	(286)		(3131)	
Average T-,THM and NPTOC levels during test period							263		3020	

*T-,THM concentration <0.5 ppb

TABLE S57. ORGANIC CHEMICAL DATA
Unit: Filter Fresh, Model FF-1, Run No. 2-17-1
Ambient Water Test at 0.7 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM* (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-30-79	1	87 (213)	* (*)	6.4 (23.7)	1.2 (5.1)	* (*)	95 (242)	61	2657 (2844)	7
05-02-79	240	254 (228)	2.1 (2.1)	27.7 (31.4)	5.0 (5.1)	* (*)	289 (267)	0	2978 (3125)	5
05-08-79	633	254 (264)	0.7 (1.6)	27.6 (36.4)	5.1 (6.7)	* (*)	287 (309)	7	3016 (3208)	6
05-10-79	862	257 (235)	* (1.2)	25.9 (33.5)	6.8 (4.9)	* (*)	290 (275)	0	3047 (3162)	4
05-13-79	1200	175 (172)	* (*)	24.3 (24.0)	5.0 (4.9)	* (*)	204 (201)	0	3075 (3103)	1
Average T-THM and NPTOC levels during test period							268		3106	

*T-,THM concentration <0.5 ppb

TABLE S58. ORGANIC CHEMICAL DATA
Unit: Filter Fresh, Model FF-1, Run No. 2-17-2
Ambient Water Test at 0.7 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM, (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-14-79	1	51 (174)	* (*)	8.0 (19.7)	1.9 (4.6)	* (*)	61 (198)	69	2531 (2907)	13
05-16-78	220	145 (172)	* (*)	17.9 (23.0)	4.1 (4.8)	* (*)	167 (200)	17	2977 (3115)	4
5-23-79	587	163 (171)	* (*)	19.3 (22.4)	3.8 (4.4)	* (*)	186 (198)	6	2825 (2875)	2
05-27-79	1064	181 (179)	* (*)	22.4 (22.1)	4.6 (4.5)	* (*)	208 (206)	0	2994 (2891)	0
05-28-79	1173	177 (187)	* (*)	21.8 (23.0)	4.4 (4.5)	* (*)	203 (215)	6	3150 (2939)	0
Average T-,THM and NPTOC levels during test period							221		2984	

*T-,THM concentration <0.5 ppb

TABLE S59. ORGANIC CHEMICAL DATA
Unit: Filter Fresh, Model FF-1, Run No. 2-17-3
Ambient Water Test at 0.7 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-22-79	0	61.2 (203)	* (1.3)	11.4 (27.5)	1.9 (5.3)	* (*)	75 (237)	68	2325 (2885)	19
05-23-79	158	147 (171)	* (*)	16.8 (22.4)	3.2 (4.4)	* (*)	167 (198)	16	2706 (2875)	6
05-28-79	501	178 (187)	* (*)	21.7 (23.0)	4.1 (4.5)	* (*)	204 (215)	5	3085 (2939)	0
05-30-79	738	214 (203)	* (*)	26.3 (24.5)	5.5 (5.3)	* (*)	246 (233)	0	2824 (3011)	6
06-04-79	1154	226 (214)	* (*)	27.5 (26.8)	6.0 (6.0)	* (*)	260 (247)	0	2840 (2909)	2
Average T-,THM and NPTOC levels during test period							227		2972	

*T-,THM concentration <0.5 ppb

TABLE S60. ORGANIC CHEMICAL DATA
Unit: Hurley Town and Country, Run No. 2-8-1
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-20-79	8	* (84)	* (*)	* (13.0)	* (2.9)	* (*)	* (100)	99	619 (2604)	76
02-27-79	1207	7.9 (85)	* (*)	* (12.4)	2.2 (3.0)	* (*)	10 (100)	90	1216 (2672)	54
03-03-79	2376	42.3 (105)	* (*)	2.4 (14.5)	0.8 (2.6)	* (*)	45 (122)	63	2211 (2706)	18
03-06-79	3189	53.6 (114)	* (*)	3.8 (16.2)	1.2 (4.0)	* (*)	59 (134)	56	2065 (2607)	21
03-12-79	4779	66.5 (103)	* (*)	3.9 (8.4)	1.0 (1.6)	* (*)	71 (113)	37	2592 (2746)	6
Average T-,THM and NPTOC levels during test period							112		2614	

*T-,THM concentration <0.5 ppb

TABLE S61. ORGANIC CHEMICAL DATA
Unit: Hurley Town and Country, Run No. 2-8-2
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-20-79	8	1.3 (84)	* (*)	* (13.0)	* (2.9)	* (*)	1 (100)	99	710 (2604)	73
03-11-79	1090	32.9 (100)	* (*)	1.5 (8.0)	* (1.5)	* (*)	34 (109)	69	2033 (2651)	23
03-26-79	2153	50 (88)	* (*)	3.4 (10.3)	1.2 (1.8)	* (*)	55 (100)	45	2180 (2802)	22
04-05-79	2865	81 (193)	* (*)	7.0 (26.0)	2.0 (5.0)	* (*)	90 (224)	60	2085 (2685)	22
04-22-79	3982	97 (213)	* (*)	7.9 (19.3)	1.4 (4.3)	* (*)	106 (237)	55	2367 (3464)	32
Average T-,THM and NPTOC levels during test period							139		2705	

*T-,THM concentration <0.5 ppb

TABLE S62. ORGANIC CHEMICAL DATA
Unit: Hurley Town and Country, Run No. 2-8-3
Ambient Water Test at 0.8 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM[1] (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-20-79	8	*	*	*	*	*	*	99	551	79
		(84)	(*)	(13.0)	(2.9)	(*)	(100)		(2604)	
03-07-79	930	15	*	0.6	0.7	*	16	85	1762	30
		(94)	(*)	(11.4)	(2.2)	(*)	(107)		(2533)	
03-21-79	1898	38	*	1.9	1.0	*	41	62	1927	23
		(92)	(*)	(13.8)	(1.9)	(*)	(108)		(2515)	
04-05-79	2957	81	*	7.0	1.4	*	89	60	1974	26
		(193)	(*)	(26.0)	(5.0)	(*)	(224)		(2685)	
04-22-79	4051	96	*	16.3	*	*	112	53	2822	19
		(213)	(*)	(19.3)	(4.3)	(*)	(237)		3464	
Average T-,THM and NPTOC levels during test period							139		2705	

*T-,THM concentration <0.5 ppb

TABLE S63. ORGANIC CHEMICAL DATA
Unit: Water Washer, Model 1000, Run No. 2-11-1
Ambient Water Test at 0.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM, (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-20-79	5	20	*	1.9	*	*	22	78	1644	37
		(84)	(*)	(13.0)	(2.9)	(*)	(100)		(2604)	
02-22-79	285	55	*	6.5	1.6	*	63	36	2429	2
		(82)	(*)	(12.9)	(2.8)	(*)	(98)		(2481)	
02-25-79	440	56	*	7.0	1.7	*	65	35	2521	5
		(84)	(*)	(13.3)	(3.0)	(*)	(101)		(2663)	
02-28-79	893	79	*	8.7	1.8	*	90	22	2362	8
		(99)	(*)	(12.7)	(2.7)	(*)	(115)		(2572)	
03-01-79	1035	87.3	*	10.2	2.1	*	100	24	2790	5
		(115)	(*)	(14.1)	(2.5)	(*)	(131)		(2939)	
Average T-,THM and NPTOC levels during test period							105		2613	

*T-,THM concentration <0.5 ppb

TABLE S64. ORGANIC CHEMICAL DATA
Unit: Water Washer, Model 1000, Run No. 2-11-2
Ambient Water Test at 0.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
02-20-79	5	22 (84)	* (*)	2.2 (13.0)	0.5 (2.9)	* (*)	25 (100)	75	1714 (2604)	34
02-28-79	338	57.6 (99)	* (*)	5.5 (12.7)	1.4 (2.7)	* (*)	65 (115)	44	2257 (2572)	12
03-03-79	490	82.6 (105)	* (*)	8.9 (14.5)	1.6 (2.6)	* (*)	93 (122)	24	2599 (2706)	4
03-12-79	795	75.8 (103)	* (*)	5.4 (8.4)	1.1 (1.6)	* (*)	82 (113)	27	2569 (2746)	6
03-17-79	995	77.4 (101)	* (*)	6.3 (9.3)	1.0 (1.5)	* (*)	85 (112)	24	2404 (2572)	7
Average T-,THM and NPTOC levels during test period							112		2607	

*T-,THM concentration <0.5 ppb

TABLE S65. ORGANIC CHEMICAL DATA
Unit: Water Washer, Model 1000, Run No. 2-11-3
Ambient Water Test at 0.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
03-07-79	5	19.8	*	1.4	0.9	*	22	79	1461	42
		(94)	(*)	(11.4)	(2.2)	(*)	(107)		(2533)	
03-13-79	260	53.7	*	3.1	0.8	*	58	48	2426	10
		(101)	(*)	(9.0)	(1.3)	(*)	(111)		(2683)	
03-21-79	510	52.9	*	5.0	1.6	*	60	44	2366	6
		(92)	(*)	(13.8)	(1.9)	(*)	(108)		(2515)	
03-27-79	760	62.4	*	10.5	2.0	*	75	34	2390	7
		(94)	*	(15.9)	(3.5)	(*)	(113)		(2562)	
04-02-79	1010	Laboratory accident - sample contaminated						--	--	--
		(148)	(*)	(19.0)	(4.0)	(*)	(171)		(2728)	
Average T-,THM and NPTOC levels during test period							113		2606	

*T-,THM concentration <0.5 ppb

TABLE S66. ORGANIC CHEMICAL DATA
Unit: Wunderbar, Run No. 2-15-1
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-10-79	2	101 (154)	* (*)	13.0 (26.3)	1.0 (3.8)	* (*)	115 (184)	38	2732 (3311)	17
04-17-79	72	126 (128)	* (*)	10.8 (11.4)	3.2 (3.4)	* (*)	140 (143)	2	3015 (2995)	0
04-20-79	136	181 (198)	* (*)	23.2 (26.4)	2.6 (3.6)	* (*)	207 (228)	9	2757 (2631)	0
04-27-79	208	268 (234)	0.9 (*)	22.8 (30.4)	4.4 (4.5)	* (*)	296 (269)	0	2798 (3092)	10
04-29-79	254	235 (228)	* (*)	21.0 (21.0)	4.5 (4.3)	* (*)	261 (253)	0	3143 (2914)	0
Average T-,THM and NPTOC levels during test period							206		3027	

*T-,THM concentration <0.5 ppb

TABLE S67. ORGANIC CHEMICAL DATA
Unit: Wunderbar, Run No. 2-15-2
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-30-79	1	220 (213)	* (*)	13.5 (23.7)	2.9 (5.1)	* (*)	236 (242)	2	2826 (2844)	1
05-07-79	50	237 (243)	* 1.1	30.4 (30.9)	4.5 (4.9)	* (*)	272 (280)	3	2962 (3295)	10
05-22-79	117	182 (203)	* (1.3)	23.9 (27.5)	4.6 (25.3)	* *	211 (237)	11	2854 (2885)	1
05-27-79	184	173 (179)	* (*)	22.1 (22.1)	4.5 (4.5)	* (*)	199 (206)	3	3057 (2891)	0
05-28-79	194	172 (187)	* (*)	20.7 (23.0)	4.2 (4.5)	* (*)	197 (215)	8	3136 (2939)	0
Average T-,THM and NPTOC levels during test period							245		3047	

*T-,THM concentration <0.5 ppb

TABLE S68. ORGANIC CHEMICAL DATA
Unit: Wunderbar, Run No. 2-15-3
Ambient Water Test at 0.1 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-04-79	1	175 (214)	* (*)	15.5 (26.8)	3.1 (6.0)	* (*)	194 (247)	21	2361 (2909)	19
06-10-79	64	206 (201)	* (*)	22.9 (23.6)	6.5 (6.5)	* *	235 (231)	0	2756 (2621)	0
6-18-79	113	189 (183)	* (*)	21.2 (20.9)	6.7 (6.7)	* (*)	217 (211)	0	2483 (2385)	0
06-22-79	148	148 (156)	* (*)	18.8 (21.0)	5.9 (6.7)	* (*)	173 (184)	6	2290 (2257)	0
06-28-79	198	167 (178)	* (*)	22.0 (29.6)	7.2 (10.5)	* (*)	198 (218)	9	2218 (2463)	10
Average T-,THM and NPTOC levels during test period							210		2532	

*T-,THM concentration <0.5 ppb

TABLE S69. ORGANIC CHEMICAL DATA
Unit: AMF-Cuno, Run No. 2-25-1
Ambient Water Test at 2.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-18-79	9	166	*	19.6	6.5	*	193	6[a]	2345	2
		(183)	(*)	(20.9)	(6.7)	(*)	(211)		(2385)	
06-21-79	903	76	*	6.9	2.1	*	85	51	2085	11
		(147)	(*)	(19.5)	(6.5)	(*)	(173)		(2348)	
06-23-79	1395	99	*	9.0	2.6	*	110	44	1933	16
		(167)	(*)	(21.8)	(7.4)	(*)	(196)		(2298)	
06-29-79	2357	104	*	11.7	3.2	*	120	52	2466	3
		(210)	(*)	(27.8)	(11.2)	(*)	(249)		(2533)	
07-02-79	3061	154	*	17.6	4.6	*	177	21	2509	1
		(190)	(*)	(27.9)	(8.3)	(*)	(226)		(2543)	
Average T-,THM and NPTOC levels during test period							210		2416	

*T-,THM concentration <0.5 ppb

[a]Low T-,THM removal may have resulted from insufficient flush time recommended by the manufacturer.

TABLE S70. ORGANIC CHEMICAL DATA
Unit: AMF-Cuno, Run No. 2-25-2
Ambient Water Test at 2.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-05-79	18	88 (192)	* (*)	27.0 (30.1)	11.4 (11.2)	* (*)	126 (233)	54[a]	1401 (1829)	23
07-10-79	1053	126 (156)	* (0.6)	15.6 (25.9)	10.1 (9.7)	* (*)	152 (193)	21	2062 (2227)	8
07-17-79	2091	128 (172)	* (*)	16.7 (31.2)	5.4 (13.5)	* (*)	151 (217)	30	2317 (2520)	8
07-24-79	3860	142 (168)	* (*)	24.3 (27.0)	6.8 (8.9)	* (*)	173 (204)	15	2349 (2380)	1
Average T-,THM and NPTOC levels during test period							208		2384	

*T-,THM concentration <0.5 ppb

[a]Low T-,THM removal may have resulted from insufficient flush time recommended by the manufacturer.

TABLE S71. ORGANIC CHEMICAL DATA
Unit: AMF-Cuno, Run No. 2-25-3
Ambient Water Test at 2.6 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
08-08-89	28	170 (206)	* (*)	22.1 (27.6)	9.6 (9.9)	* (*)	202 (244)	17[a]	2223 (1959)	--
08-12-79	1141	124 (184)	* (*)	17.7 (28.8)	7.3 (12.3)	* (*)	149 (225)	33	1707 (1774)	4
08-16-79	1591	140 (214)	* (*)	16.0 (26.4)	5.6 (9.2)	* (*)	162 (250)	35	2023 (2020)	0
08-19-79	2605	176 (230)	* (*)	20.2 (26.7)	7.2 (8.7)	* (*)	204 (265)	23	2145 (2198)	2
08-22-79	3553	164 (172)	* (*)	16.4 (19.6)	3.9 (5.2)	* (*)	185 (197)	6	1999 (2076)	5
Average T-,THM and NPTOC levels during test period							233		2034	

*T-,THM concentration <0.5 ppb

[a]Low T-,THM removal may have resulted from insufficient flush time recommended by the manufacturer.

TABLE S72. ORGANIC CHEMICAL DATA
Unit: Filterite, Model 1PC, Run No. 2-28-1
Ambient Water Test at 2.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
07-27-79	27	24	*	0.6	0.9	*	26	88	2336	--
		(181)	(*)	(28.7)	(10.1)	(*)	(220)		(1782)	
07-29-79	895	209	*	29.6	7.6	*	247	--	1832	6
		(183)	(*)	(29.5)	(10.9)	(*)	(223)		(1940)	
07-31-79	1784	182	*	28.3	10.1	*	220	0	2070	--
		(178)	(*)	(27.1)	(9.3)	(*)	(214)		(1828)	
08-05-79	3130	192	*	29.5	10.0	*	230	0	2120	--
		(176)	(*)	(27.7)	(9.8)	(*)	(214)		(1867)	
08-06-79	3571	168	*	27.6	9.4	*	206	12	1899	3
		(192)	(*)	(30.5)	(10.4)	(*)	(233)		(1963)	
Average T-,THM and NPTOC levels during test period							223		1891	

*T-,THM concentration <0.5 ppb

TABLE S73. ORGANIC CHEMICAL DATA
Unit: Filterite, Model IPC, Run No. 2-28-2
Ambient Water Test at 2.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-16-79	10	35 (138)	* (*)	* (19.4)	* (7.1)	* (*)	35 (165)	79	1571 (2341)	33
09-18-79	740	101 (124)	* (*)	12.5 (16.3)	5.2 (7.6)	* (*)	119 (148)	20	2178 (2396)	9
09-21-79	1355	93 (126)	* (*)	12.1 (18.7)	4.4 (8.8)	* (*)	110 (153)	28	1675 (2075)	19
09-25-79	1785	112 (106)	* (*)	16.4 (16.6)	5.8 (6.4)	* (*)	134 (129)	0	1939 (2163)	10
09-27-79	2236	105 (118)	* (*)	16.7 (19.4)	6.0 (7.0)	* (*)	128 (144)	11	1987 (2074)	4
10-01-79	3109	31 (116)	* (*)	11.6 (16.0)	4.8 (6.0)	* (*)	98 (138)	29	1959 (1890)	0
Average T-,THM and NPTOC levels during test period							146		2126	

*T-,THM concentration <0.5 ppb

TABLE S74. ORGANIC CHEMICAL DATA
Unit: Filterite Model 1PC, Run No. 2-28-3
Ambient Water Test at 2.9 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
09-20-79	19	53 (127)	* (*)	2.7 (17.6)	1.3 (6.6)	* (*)	58 (151)	62	1750 (2053)	15
09-23-79	799	102 (109)	* (*)	13.4 (15.4)	4.8 (5.5)	* (*)	121 (130)	7	1842 (2104)	12
09-25-79	1397	115 (106)	* (*)	17.5 (16.6)	6.5 (6.4)	* (*)	140 (129)	0	2012 (2163)	7
09-30-79	2214	114 (110)	* (*)	16.8 (16.4)	6.2 (6.3)	* (*)	138 (133)	0	1923 (2025)	5
10-03-79	3015	110 (114)	* (*)	13.5 (13.9)	5.0 (5.1)	* (*)	129 (133)	3	1915 (1993)	4
Average T-,THM and NPTOC levels during test period							139		2068	

*T-,THM concentration <0.5 ppb

TABLE S75. ORGANIC CHEMICAL DATA
Unit: Fulflo, Model WC-10, Run No. 2-23-1
Ambient Water Test at 2.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THMi (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-20-79	9	150 (257)	1.8 (2.2)	18.7 (30.3)	3.9 (6.1)	* (*)	174 (296)	41	2079 (2873)	28
05-21-79	861	176 (248)	1.8 (1.9)	20.8 (30.7)	4.0 (6.1)	* (*)	203 (287)	29	2845 (2953)	4
05-23-79	2115	148 (171)	* (*)	18.3 (22.4)	3.5 (4.4)	* (*)	170 (198)	14	2870 (2875)	0
05-27-79	2720	166 (179)	* (*)	18.9 (22.1)	3.7 (4.5)	* (*)	189 (206)	8	2961 (2891)	0
05-28-79	3291	158 (187)	* (*)	17.4 (23.0)	3.3 (4.5)	* (*)	179 (215)	17	2742 (2939)	7
Average T-,THM and NPTOC levels during test period							234		2935	

*T-,THM concentration <0.5 ppb

TABLE S76. ORGANIC CHEMICAL DATA
Unit: Fulflo, Model WC-10, Run No. 2-23-2
Ambient Water Test at 2.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-28-79	8	66 (187)	* (*)	6.5 (23.0)	1.4 (4.5)	* (*)	74 (215)	66	2176 (2939)	26
05-31-79	704	172 (209)	* (*)	18.2 (26.0)	3.6 (5.5)	* (*)	194 (241)	20	2710 (3107)	13
06-03-79	1369	180 (217)	* (*)	20.1 (26.8)	4.0 (5.7)	* (*)	204 (250)	18	3030 (2999)	0
06-10-79	2460	204 (201)	* (*)	21.5 (23.6)	5.5 (6.5)	* (*)	231 (231)	0	2611 (2621)	0
06-12-79	2891	177 (159)	* (*)	21.6 (20.9)	5.7 (6.2)	* (*)	204 (186)	0	2479 (2631)	6
Average T-,THM and NPTOC levels during test period							231		2901	

*T-,THM concentration <0.5 ppb

TABLE S77. ORGANIC CHEMICAL DATA
Unit: Fulflo, Model WC-10, Run No. 2-23-3
Ambient Water Test at 2.5 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM[1] (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-21-79	8	67 (147)	* (*)	5.7 (19.5)	1.7 (6.5)	* (*)	72 (173)	58	1666 (2348)	29
06-26-79	813	146 (152)	* (*)	19.7 (26.3)	5.9 (9.6)	* (*)	172 (188)	9	2178 (2366)	8
07-05-79	1528	173 (192)	* (*)	23.4 (30.1)	7.4 (11.2)	* (*)	204 (233)	12	1775 (2379)	3
07-12-79	2325	138 (131)	* (*)	22.5 (22.4)	8.1 (9.0)	* (*)	169 (162)	0	1983 (2191)	9
07-19-79	3169	187 (172)	* (*)	30.6 (25.3)	10.6 (7.4)	* (*)	229 (205)	--	2312 (2731)	6
Average T-,THM and NPTOC levels during test period							209		2375	

*T-,THM concentration <0.5 ppb

TABLE S78. ORGANIC CHEMICAL DATA
Unit: Keystone, Model 3121, Run No. 2-24-1
Ambient Water Test at 2.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-21-79	7	71.2 (248)	* (1.9)	11.9 (30.7)	2.0 (6.1)	* (*)	85 (287)	70	2476 (2953)	16
05-24-79	695	167 (204)	* (*)	21.4 (25.1)	3.8 (4.6)	* (*)	192 (230)	17	2709 (3011)	10
05-29-79	1715	168 (194)	* (*)	20.6 (22.9)	4.4 (4.6)	* (*)	193 (222)	13	2863 (2966)	3
06-01-79	2978	196 (208)	* (*)	21.5 (25.7)	4.9 (5.3)	* (*)	222 (239)	7	2963 (3016)	2
06-03-79	3585	196 (217)	* (*)	24.2 (26.8)	5.2 (5.7)	* (*)	225 (250)	10	3065 (2999)	0
Average T-,THM and NPTOC levels during test period							230		2975	

*T-,THM concentration <0.5 ppb

TABLE S79. ORGANIC CHEMICAL DATA
Unit: Keystone Model 3121, Run No. 2-24-2
Ambient Water Test at 2.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-04-79	9	41 (214)	* (*)	2.0 (26.8)	* (6.0)	* (*)	43 (247)	83	1959 (2909)	33
06-10-79	891	164 (201)	* (*)	16.7 (23.6)	4.5 (6.5)	* (*)	185 (231)	20	2502 (2621)	5
06-13-79	1539	154 (176)	* (*)	18.6 (22.8)	5.5 (7.4)	* (*)	179 (206)	13	2308 (2356)	2
06-16-79	2279	177 (186)	* (*)	18.7 (20.8)	5.9 (7.1)	* (*)	202 (214)	6	2222 (2307)	4
06-19-79	2895	175 (175)	* (*)	19.5 (19.4)	6.4 (5.9)	* (*)	201 (200)	0	2274 (2367)	4
Average T-,THM and NPTOC levels during test period							219		2628	

*T-,THM concentration <0.5 ppb

TABLE S80. ORGANIC CHEMICAL DATA
Unit: Keystone Model 3121, Run No. 2-24-3
Ambient Water Test at 2.2 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-25-79	10	47	*	4.1	1.5	*	53	74	2043	12
		(165)	(*)	(26.5)	(9.4)	(*)	(201)		(2332)	
06-29-79	1003	141	*	22.5	7.6	*	172	31	2535	0
		(210)	(*)	(27.8)	(11.2)	(*)	(249)		(2533)	
07-03-79	1854	174	*	25.6	9.5	*	209	8	2349	0
		(189)	(*)	(27.7)	(10.2)	(*)	(227)		(2323)	
07-09-79	2656	169	0.6	27.8	11.3	*	209	17	2073	6
		(191)	(*)	(47.0)	(12.1)	(0.6)	(251)		(2204)	
07-10-79	2870	162	0.5	16.5	1.2	*	181	6	2178	2
		(156)	(0.6)	(25.9)	(9.7)	(*)	(193)		(2227)	
07-12-79	3294	145	*	*	*	*	145	10	2185	0
		(131)	(*)	(22.4)	(9.0)	(162)			(2191)	
Average T-,THM and NPTOC levels during test period							218		2387	

*T-,THM concentration <0.5 ppb

TABLE S81. ORGANIC CHEMICAL DATA
Unit: Filbrook Pour-Thru, Run No. 2-18-1
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-01-79	1	36 (233)	* (*)	2.8 (17.0)	2.5 (7.8)	* (*)	41 (258)	84	1223 (3124)	61
05-06-79	100	53 (286)	* (1.3)	3.4 (41.4)	* (6.5)	* (*)	56 (335)	83	2569 (3071)	16
05-17-79	214	64 (167)	* (*)	14.5 (21.7)	1.9 (5.5)	* (*)	80 (194)	64	2493 (2994)	17
05-22-79	355	90 (203)	* (1.3)	8.9 (27.5)	2.1 (5.3)	* (*)	101 (237)	57	2631 (2885)	9
05-27-79	508	88 (179)	* (*)	8.0 (22.1)	4.0 (4.5)	* (*)	100 (206)	51	2539 (2891)	12
Average T-,THM and NPTOC levels during test period							247		3059	

*T-,THM concentration <0.5 ppb

TABLE S82. ORGANIC CHEMICAL DATA
Unit: Filbrook Pour-Thru, Run No. 2-18-2
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-28-79	1	26 (187)	* (*)	2.4 (23.0)	1.1 (4.5)	* (*)	30 (215)	86	1379 (2939)	53
06-12-79	327	93.7 (159)	* (*)	8.3 (20.9)	2.3 (6.2)	* (*)	104 (186)	44	2306 (2631)	12
06-22-79	652	91 (156)	* (*)	8.6 (21.0)	2.4 (6.7)	* (*)	102 (184)	45	2114 (2257)	6
07-07-79	971	135 (180)	* (*)	19.2 (30.1)	6.4 (12.2)	* (0.6)	161 (223)	28	2168 (2488)	13
07-19-79	1256	154 (172)	* (*)	23.1 (25.3)	8.1 (7.4)	* (*)	185 (205)	10	2317 (2731)	15
Average T-,THM and NPTOC levels during test period							215		3158	

*T-,THM concentration <0.5 ppb

TABLE S83. ORGANIC CHEMICAL DATA
Unit: Filbrook Pour-Thru, Run No. 2-18-3
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM, (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
06-05-79	1	21	*	1.8	*	*	23	90	1753	42
		(204)	(*)	(24.5)	(5.2)	(*)	(234)		(3005)	
06-18-79	197	134	*	12.6	3.5	*	150	29	2220	7
		(183)	(*)	(20.9)	(6.7)	(*)	(211)		(2385)	
06-30-79	399	133	*	19.7	4.2	*	157	44	2070	23
		(241)	(*)	(25.9)	(11.8)	(*)	(279)		(2671)	
07-10-79	612	127	*	16.8	5.8	*	150	21	1969	12
		(156)	(0.6)	(25.9)	(9.7)	(*)	(193)		(2227)	
07-19-79	822	149	*	21.4	7.2	*	178	13	2286	16
		(172)	(*)	(25.3)	(7.4)	(*)	(205)		(2731)	
Average T-,THM and NPTOC levels during test period							212		2455	

*T-,THM concentration <0.5 ppb

TABLE S84. ORGANIC CHEMICAL DATA
Unit: Puriton Bacteriostatic, Run No. 2-12-1
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
03-13-79	1	12.1 (101)	* (*)	* (9.0)	* (1.3)	* (*)	12 (111)	89	2140 (2683)	20
03-23-79	193	98.4 (109)	* (*)	6.8 (11.7)	1.4 (2.4)	* (*)	109 (123)	11	2532 (2557)	1
04-03-79	630	112 (152)	* (*)	24 (19)	3.3 (4.0)	* (*)	139 (175)	21	2326 (2536)	8
04-10-79	900	142 (154)	0.9 (*)	25.5 (26.3)	3.5 (3.8)	* (*)	172 (184)	7	3257 (3311)	2
04-15-79	1105	146 (156)	* (*)	25.5 (14.9)	3.6 (2.9)	* (*)	175 (174)	0	2883 (3045)	5
Average T-,THM and NPTOC levels during test period							144		2712	

*T-,THM concentration <0.5 ppb

TABLE S85. ORGANIC CHEMICAL DATA
Unit: Puriton Bacteriostatic, Run No. 2-12-2
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
04-17-79	2	21 (128)	* (*)	1.5 (11.4)	0.6 (3.4)	* (*)	23 143	84	2218 2995	26
04-27-79	327	176 (234)	0.9 (*)	23.4 (30.4)	1.8 (4.5)	* (*)	202 (269)	24	2966 (3092)	4
05-04-79	606	219 (245)	1.6 (1.9)	28.5 (32.3)	3.8 (6.3)	* (*)	253 (286)	12	2884 (3068)	6
05-14-79	1029	143 (184)	* (*)	18.1 (21.4)	4.2 (5.3)	* (*)	165 (211)	21	3009 (3193)	6
05-16-79	1196	120 (172)	* (*)	12.1 (23.0)	4.4 (4.8)	* (*)	137 (200)	32	3112 (3115)	0
Average T-,THM and NPTOC levels furing test period							242		3040	

*T-,THM concentration <0.5 ppb

TABLE S8b. ORGANIC CHEMICAL DATA
Unit: Puriton Bacteriostatic, Run No. 2-12-3
Ambient Water Test at 0.04 gpm Flow Rate

Test date	Gallons processed	Effluent (influent) T-,THM, (ppb)						Percent reduction T-,THM	Effluent (influent) NPTOC (ppb)	Percent reduction TOC
		$CHCl_3$	CCl_4	$CHCl_2Br$	$CHClBr_2$	$CHBr_3$	Total			
05-17-79	1	13.3 (167)	* (*)	* (21.7)	* (5.5)	* (*)	13 (194)	93	1957 (2994)	35
05-21-79	195	223 (248)	1.6 (1.9)	24.9 (30.7)	4.5 (6.1)	* (*)	254 (287)	11	2803 (2953)	5
05-29-79	514	163 (194)	* (*)	18.6 (22.9)	3.3 (4.6)	* (*)	191 (222)	14	2921 (2966)	2
06-01-79	712	184 (208)	* (*)	19.9 (25.7)	4.1 (5.3)	* (*)	208 (239)	13	3091 (3016)	0
06-07-79	1038	209 (215)	* (*)	25.4 (25.0)	5.1 (5.9)	* (*)	240 (245)	2	2787 (2856)	2
Average T-,THM and NPTOC levels during test period							232		2979	

*T-THM concentration <0.5 ppb

TABLE S87. BACTERIAL, PHYSICAL, AND CHEMICAL PROPERTIES OF CONTROL LOOP EFFLUENT AND/OR INFLUENT WATER

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
02-20-79	140[c]	2.2[c]	0.00	1.15	18.0	23.0
02-21-79	5800	3.0	0.07	0.19	18.0	23.0
02-22-79	190	2.2	0.00	0.18	17.0	23.0
02-23-79	15	2.6	0.00	0.14	17.5	23.0
02-24-79	25	2.4	0.00	0.11	18.0	22.5
02-26-79	40	2.6	0.00	0.12	18.0	23.5
02-27-79	<10[c,d]	3.5[c]	0.00	0.10	17.5	23.0
02-28-79	220/1000[c]	1.9/1.2[c]	0.00	0.21	17.5	22.5
03-01-79	<10[d]	1.8	0.00	0.22	17.5	23.0
03-02-79	490	2.4	0.00	0.09	17.0	23.5
03-03-79	1700[a]	2.2[a]	0.00	0.04	16.5	25.0
03-04-79	840	2.5	0.00	0.04	17.5	24.5
03-05-79	690(70)	2.4	0.00	0.06	18.0	24.5
03-06-79	170	2.5	0.00	0.10	18.0	24.5
03-07-79	580/5500[a] (570/4700[a])	2.2/2.6[a]	0.02	0.25	18.5	24.0
03-08-79	10/30[c] (30/30[c])	2.3/2.4[c]	0.00	0.00	19.0	24.0
03-09-79	<10[d]/420[a] (<10[d]/170[a])	2.3/<.1[a]	0.02	0.10	19.0	23.5
03-10-79	620(530)	3.9	0.04	0.21	18.0	23.0
03-11-79	320(440)	3.5	0.08	0.29	18.0	21.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
03-12-79	30/270[c] (140/380[c])	3.5/4.6[c]	0.00	0.00	18.0	22.0
03-13-79	790/140[c] (320/220[c])	3.5/4.0[c]	0.08	0.07	18.0	23.0
03-14-79	190(120)	3.6	0.00	0.07	18.0	23.5
03-15-79	220	--	0.00	0.14	18.0	23.0
03-16-79	70/20[c] (70/110[c])	3.0/4.2[c]	0.00	0.08	18.5	24.5
03-17-79	50(110)	2.6	0.00	0.02	18.0	25.0
03-18-79	40(110)	1.8	0.00	0.14	19.0	25.0
03-19-79	130(80)	0.1	0.00	0.23	20.0	24.0
03-20-79	1700(2000)	2.4	0.00	0.09	20.5	24.0
03-21-79	260/1600[a] (230/1500[a])	1.6/2.0[a]	0.00	0.05	20.0	25.0
03-22-79	0/<10[c,d] (230/10[c])	0.4/0.2[c]	0.00	0.25	21.0	25.0
03-23-79	220/7600[b]/20[c] (80/5500[b]/<10[c,d])	--/--[b]/9.8[c]	0.02	0.17	20.0	25.0
03-24-79	100(160)	11.8	0.00	0.06	21.0	22.5
03-25-79	80(70)	13.0	0.09	--	19.5	21.0
03-26-79	70(110)	14.1	0.00	0.16	21.0	23.0
03-27-79	120(320)	12.7	0.00	0.09	19.5	25.5
03-28-79	90/20[c] (70/10[c])	12.0/12.5[c]	0.07	0.52	18.0	25.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
03-29-79	<10[d] (<10[d])	11.9	0.03	0.27	18.5	24.0
03-30-79	130(90)	15.1	0.00	0.50	18.5	24.5
03-31-79	10/440[a] (60/610[a])	2.0/3.3[a]	0.00	0.41	19.5	24.0
04-02-79	70(140)	1.8	0.00	0.36	20.5	25.0
04-03-79	1000/70[c] (1400/60[c])	1.8/3.7[c]	0.00	0.39	20.0	24.0
04-04-79	5(12)	4.2	0.00	0.10	20.0	23.0
04-05-79	140(70)	1.8	0.06	0.47	20.0	22.5
04-07-79	<10[d] (<10[d])	5.1	0.00	0.29	20.0	22.5
04-08-79	<10[d]/1700[b] (<10[d]/1700[b])	3.4/5.2[b]	0.00	0.38	20.0	23.5
04-09-79	60/<10[c,d] (130/<10[c,d])	4.2/3.7[c]	0.00	0.14	20.5	24.5
04-10-79	140(110)	3.0	0.02	0.19	20.5	24.5
04-11-79	160(260)	3.3	0.00	0.19	21.0	26.0
04-12-79	10(540)	5.1	0.00	--	21.5	26.5
04-13-79	2500(2800)	1.6	0.00	--	21.0	26.0
04-15-79	130/4500[b]/30[c] (140/440[b]/30[c])	2.0/0.9[b]/2.0[c]	0.02	0.30	19.0	24.0
04-16-79	10(30)	1.3	0.00	0.30	21.0	24.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
04-17-79	50/820[a]/50[c] (60/1200[a]/70[c])	2.1/2.7[a]/2.1[c]	0.02	0.34	21.0	24.5
04-18-79	40/10[c] (30/10[c])	1.3/1.9[c]	0.05	0.37	21.5	24.5
04-19-79	100(180)	1.9	0.08	0.45	21.5	24.5
04-20-79	40/<10[c,d] (80/<10[c,d])	2.2/6.0[c]	0.00	0.32	21.0	24.0
04-21-79	<10[d](<10[d])	6.6	0.00	0.14	22.0	24.5
04-22-79	790/470[a] (1000/400[a])	5.0/4.9[a]	0.02	0.23	22.5	24.5
04-23-79	130(96)	4.9	0.00	0.41	22.0	24.5
04-24-79	340/100[c] (410/100[c])	6.4/6.4[c]	0.00	0.49	21.5	24.5
04-25-79	220/6100[b]/30[c] (250/8100[b]/30[c])	4.5/5.6[b]/5.4[c]	0.00	0.59	22.5	25.0
04-26-79	20(<10[d])	1.1	0.00	0.38	21.5	25.5
04-27-79	170(10)	4.5	0.00	0.14	22.0	24.5
04-28-79	20(10)	2.8	0.00	0.32	22.5	24.5
04-29-79	610(570)	3.8	0.04	0.44	21.5	24.5
04-30-79	540[a]/15000[b] (440[a]/9500[b])	4.5[a]/4.2[b]	0.00	--	21.5	24.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
04-30-79	510/<10[c,d] (340/<10[c,d])	3.5/4.7[c]	0.02	0.46	21.5	24.0
05-01-79	10(60)	3.2	0.00	0.43	22.0	24.0
05-02-79	300/1700[a] (520/2000[a])	4.6/2.5[a]	0.00	0.49	22.0	25.0
05-03-79	10/2400[c] (<10[d]/2800[c])	4.4/-[c]	0.00	0.70	22.5	25.5
05-05-79	<10[c,d] (<10[c,d])	12630/2.6[c]	0.07	0.72	22.5	24.5
05-06-79	310(420)	2.2	0.07	0.76	22.5	24.5
05-09-79	210(130)	3.2	0.02	1.14	23.5	24.0
05-10-79	40[c] (10[c])	2.8[c]	--	0.73	23.5	25.0
05-11-79	3700[b] (3900[b])	2.6[b]	0.00	--	24.0	25.5
05-12-79	<10[d] (<10[d])	2.7	0.00	0.87	23.5	25.5
05-13-79	<10[d] (<10[d])	2.5	0.02	0.45	23.5	24.5
05-14-79	<10[d]/80[c] (<10[d]/40[c])	3.0/2.4[c]	0.08	0.86	23.0	24.0
05-15-79	30(40)	2.2	0.00	0.58	23.5	24.5
05-17-79	30/1300[b]/30[c] (20/1200[b]/40[c])	2.5/4.3[b]/3.5[c]	0.00	1.09	23.5	24.5
05-18-79	<10[d] (<10[d])	4.0	0.03	1.14	24.0	24.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
05-20-79	30/3800[a] (130/3900[a])	3.1/3.1[a]	0.00	0.90	23.5	25.0
05-21-79	<10[d] (<10[d])	4.8	0.00	1.02	23.5	24.5
05-22-79	30/2300[a]/12000[b] (250/1700[a]/10000[b])	1.4/2.8[a]/4.0[b]	0.06	0.84	24.0	24.5
05-23-79	40(<10[d])	3.3	0.00	0.71	23.0	24.5
05-24-79	4300[a](3600[a])	2.8[a]	0.00	0.87	23.0	24.0
05-25-79	220(170)	3.0	0.00	0.70	23.0	22.5
05-27-79	770[a]/2100[c] (20[a]/1200[c])	1.8[a]/1.6[c]	0.00	0.40	23.0	23.0
05-28-79	90/20[c] (130/30[c])	3.3/1.2[c]	0.00	0.51	23.5	23.0
05-29-79	<10[d]/30[c] (<10[d]/30[c])	1.5/3.2[c]	0.00	0.86	22.5	23.5
05-30-79	170(40)	1.9	0.00	0.71	23.5	25.5
05-31-79	<10[d]/<10[c,d] (50/30[c])	-/-[c]	0.00	0.70	24.5	25.5
06-01-79	<10[d](90)	1.6	0.00	0.72	24.5	25.5
06-03-79	20/70[a]/730[b] (10/200[a]/1000[b])	3.1/2.4[a]/3.1[b]	0.00	0.50	24.5	26.0
06-04-79	30/<10[c,d] (10/<10[c,d])	2.7/1.9[c]	0.00	0.62	24.5	26.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
06-05-79	<10[d]/20[c] (40/30[c])	3.1/1.6[c]	0.00	0.86	26.0	25.5
06-06-79	340/7900[a] (660/8000[a])	2.8/1.2[a]	0.00	1.04	25.5	25.0
06-07-79	40(110)	1.8	0.00	0.11	25.0	25.0
06-08-79	20(<10[d])	2.5	0.00	0.81	25.0	24.0
06-10-79	<10[d]/<10[c,d] (<10[d]/<10[c,d])	4.2/4.7[c]	0.06	0.91	26.5	31.5
06-10-79	<10[a,d]/570[b] (30[a]/3800[b])	4.8[a]/4.8[b]	0.00	--	26.5	31.5
06-11-79	<10[c,d](<10[c,d])	-[c]	--	1.09	25.5	27.0
06-12-79	<10[d](<10[d])	6.4	0.00	1.05	24.5	23.0
06-13-79	60/30[a] (40/40[a])	5.5/5.5[a]	0.00	1.15	24.5	24.0
06-15-79	<10[d]/1900[b] (10/2200[b])	3.8/3.0[b]	0.00	1.07	25.5	25.5
06-16-79	<10[d](<10[d])	6.4	0.00	0.14	25.5	25.5
06-18-79	30/20[a]/<10[c,d] (10/130[a]/<10[c,d])	3.7/8.4[a]/3.0[c]	0.00	0.87	26.0	26.5
06-19-79	<10[d](<10[d])	2.2	0.00	1.16	24.5	24.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-3]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
06-20-79	<10[d]/10[a]/<10[b,d] (<10[d]/10[a]/<10[b,d])	3.2/1.6[a]/6.4[b]	0.28	1.30	25.5	24.5
06-21-79	<10[c,d] (<10[c,d])	5.6[c]	0.78	1.05	26.0	25.0
06-22-79	<10[d]/<10[c,d] (<10[d]/<10[c,d])	3.7/1.8[c]	0.00	1.17	26.5	25.0
06-23-79	20(10)	1.5	0.00	0.78	26.5	26.0
06-25-79	<10[d]/40[b]/<10[c,d] (20/30[b]/<10[c,d])	1.2/2.1[b]/1.6[c]	0.76	1.29	26.0	25.5
06-26-79	50(110)	1.3	0.00	1.23	26.0	25.0
06-27-79	<10[d](<10[d])	1.6	0.00	1.26	26.0	24.0
06-28-79	<10[d]/120[c] (80/160[c])	1.3/2.7[c]	0.00	--	26.0	24.0
06-29-79	160(160)	1.4	0.03	0.96	26.0	24.0
07-02-79	<10[d](<10[d])	1.3	0.00	1.16	28.5	25.5
07-03-79	<10[b,d](<10[b,d])	2.8[b]	0.00	0.57	28.0	25.0
07-05-79	<10[d]/10000[a]/<10[c,d] (<10[d]/11000[a]/200[c])	1.0/1.4[a]/1.1[c]	0.00	1.10	26.0	25.0
07-06-79	<10[d](<10[d])	1.4	0.00	0.91	25.5	25.0
07-07-79	60(70)	1.7	0.00	0.57	26.5	24.0
07-09-79	50/150[a] 40/140[a]	3.2/1.6[a]	0.00	0.90	27.0	24.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
07-10-79	180/70[c] (710/70[c])	1.9/3.2[c]	0.02	1.20	26.5	24.0
07-12-79	320/10[c] (350/40[c])	2.9/2.9[c]	0.18	0.96	25.0	23.0
07-13-79	<10[d] (30)	3.2	0.12	0.82	25.0	22.0
07-14-79	170/100[b] (250/110[b])	4.2/3.0[b]	0.00	1.02	26.0	23.5
07-15-79	40/700[a] (30/<10[a,d])	3.4/2.6[a]	0.00	0.00	27.0	26.0
07-16-79	<10[d]/10[c] (120/20[c])	3.2/7.2[c]	0.00	0.83	27.5	24.0
07-17-79	350[c] (310[c])	6.8/4.2[c]	0.00	0.33	24.0	22.5
07-19-79	3/800[c] (6/1600[c])	-/1.9[c]	0.14	1.36	27.0	25.0
07-20-79	370/1400[b] (62/2200[b])	1.0/3.0[b]	0.14	0.60	27.5	27.0
07-23-79	38/10[c] (17/10[c])	1.5/2.0[c]	0.00	0.57	27.5	27.0
07-24-79	66(22)	1.5	0.00	0.58	27.0	25.0
07-25-79	2600/6800[b] (1500/9500[b])	2.5/3.2[b]	0.00	0.45	27.0	25.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
07-26-79	100(360)	2.0	0.00	1.20	27.0	25.0
07-27-79	0[c](0[c])	2.4[c]	0.11	--	27.0	26.0
07-29-79	53(68)	3.6	0.00	0.74	28.0	27.5
07-30-79	36/170[b]/1[c] (22/310[b]/0[c])	2.8/3.6[b]/2.8[c]	0.04	0.78	28.0	27.0
07-31-79	0(0)	2.4	0.04	0.53	27.5	27.0
08-01-79	55/3[c] (42/0[c])	1.6/2.1[c]	0.00	0.91	27.5	26.5
08-02-79	30(16)	3.0	0.00	0.94	27.0	25.5
08-03-79	6(12)	--	0.03	--	27.5	25.5
08-05-79	0/310[a] (0/310[a])	-/-	0.00	0.86	28.5	29.0
08-06-79	<10[d](<10[d])	--	0.00	0.47	28.5	27.0
08-07-79	11/250[a] (0/600[a])	-/-	0.00	0.98	28.0	26.0
08-08-79	1/9[c] (0/11[c])	--	0.00	1.01	28.0	25.0
08-09-79	0(0)	--	0.00	0.55	28.0	26.0
08-10-79	560/150[c] (140/17[c])	5.2/4.0[c]	0.00	0.66	27.5	25.0
08-12-79	40(50)	6.5	0.00	0.72	26.5	23.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
08-13-79	6000(5500)	4.3	0.00	1.26	27.5	23.5
08-14-79	0(0)	5.8	0.00	0.85	27.0	24.5
08-15-79	4/0[c] (0/0[c])	8.0/2.4[c]	0.00	1.12	26.0	23.0
08-16-79	20/75[a]/29[c] (20/41[a]/66[c])	7.3/7.8[a]/4.0[c]	0.00	0.91	25.5	23.0
08-17-79	40(52)	4.3	0.50	1.53	27.0	25.5
08-19-79	72/420[a]/280[c] (88/390[a]/400[c])	2.4/10.8[a]/3.5[c]	0.00	0.61	29.0	30.5
08-20-79	0(0)	1.8	0.54	0.04	27.5	25.5
08-21-79	<10[d]/800[a] (<10[d]/730[a])	2.6/3.2[a]	0.00	0.48	27.5	24.5
08-22-79	30(50)	3.1	0.00	1.25	26.5	23.0
08-24-79	190(170)	4.3	0.00	0.77	26.0	23.5
08-25-79	4/1100[b]/50[c] (0/580[b]/73[c])	2.1/2.3[b]/1.4[c]	0.00	0.61	27.5	26.5
08-26-79	140(55)	1.2	0.00	0.75	27.5	28.5
08-27-79	5/23[c] (12/21[c])	2.8/1.6[c]	0.10	0.31	27.0	26.0
08-28-79	17(20)	--	0.00	0.44	27.0	26.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
08-29-79	5/180[a]/470[c] (40/220[d]/580[c])	2.8/2.7[a]/218[c]	0.00	0.42	27.0	27.0
08-30-79	4200[b] (3900[b])	2.8/2.2[b]	0.00	0.51	26.5	26.5
08-31-79	0/0[c] (0/0[c])	2.4/-[c]	0.00	0.55	27.5	26.5
09-04-79	36/-[c] (50/1100[c])	1.6/3.8[c]	0.00	0.59	26.0	25.5
09-05-79	<10[d]/1500[c,d] (<10[d]/1700[c,d])	1.4/1.4[c]	0.00	0.55	26.0	26.5
09-06-79	2500/400[a] (1500/620[a])	3.1/2.9[a]	0.00	0.11	24.5	25.0
09-07-79	48[c] (40[c])	1.5[c]	0.06	1.10	25.0	25.0
09-08-79	-(-)	1.1	0.00	0.31	25.0	25.5
09-09-79	360/1900[b] (620/4200[b])	1.3/1.4[b]	0.02	0.00	27.5	27.5
09-10-79	63[c] (67[c])	2.0/2.1[c]	0.31	1.10	27.5	25.5
09-11-79	32/8[c] (370/3[c])	1.4/2.6[c]	0.00	0.55	25.5	25.5
09-12-79	-(770)	2.0	0.00	--	25.5	25.0
09-14-79	130/690[a] (430/610[a])	3.5/1.9[a]	0.00	--	25.5	25.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
09-15-79	11(14)	1.3	0.00	1.03	27.0	26.0
09-16-79	21/3[c]	2.7/4.2[c]	0.00	1.21	27.5	26.0
	(110/1[c])					
09-17-79	14/5[a]	4.2/4.5[a]	0.00	1.70	23.0	24.5
	(45/5[a])					
09-18-79	4(70)	3.4	0.00	0.73	22.0	24.5
09-19-79	280/5900[b]	3.9/3.3[b]	0.00	0.75	22.0	25.0
	(2300/2900[b])					
09-20-79	43[c](140[c])	1.3[c]	0.12	0.82	22.0	24.5
09-21-79	9/610[a]	3.0/1.5[a]	0.00	0.62	22.0	23.5
	(12/300[a])					
09-23-79	99/8[a]	2.1/3.6[a]	0.00	0.19	22.5	25.0
	(64/50[a])					
09-24-79	41/1600[b]	2.8/2.1[b]	0.00	0.18	25.5	25.5
	(280/3900[b])					
09-25-79	14/400[a]	2.1/4.3[a]	0.00	0.41	28.5	27.5
	(250/610[a])					
09-26-79	3/10[c]	2.1/2.0[c]	0.00	0.33	28.0	26.5
	(20/20[c])					
09-27-79	0(9)	2.0	0.00	0.70	27.5	25.0
09-28-79	30/780[a]	2.4/2.0[a]	0.05	0.35	28.0	25.5
	(18/18[a])					

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
09-30-79	6[c] (9[c])	2.1[c]	--	0.35	28.0	27.0
10-01-79	55(67)	2.1	0.00	0.63	26.0	25.0
10-02-79	43/6[a]/8900[b] (190/67[a]/8600[b])	1.2/2.5[a]/2.1[b]	0.00	0.53	25.0	24.0
10-03-79	16/3[c] (17/1[c])	1.4/1.0[c]	0.00	0.76	25.0	24.0
10-04-79	0/53[c] (1/440[c])	2.4/1.2[c]	0.00	1.52	24.5	24.5
10-07-79	820/9800[b] (110/10000[b])	3.4/1.2[b]	0.02	0.94	24.0	25.0
10-08-79	930/50[c] (910/57[c])	3.3/2.4[c]	0.02	1.41	23.5	24.5
10-09-79	940/22[b] (910/720[b])	1.9/2.2[b]	0.00	1.12	23.0	23.5
10-10-79	49(67)	1.3	0.02	0.71	24.5	23.0
10-11-79	5/2[a]/140[c] (8/4[a]/160[c])	2.4/2.9[a]/1.6[c]	0.14	1.27	25.5	23.0
10-12-79	440/6600[b]/3[c] (200/6600[b]/7[c])	2.6/2.3[b]/7.3[c]	0.00	1.40	26.0	23.0
10-14-79	470/70[a]/3[c] (590/110[a]/5[c])	3.2/2.1[a]/3.0[c]	0.00	0.53	25.5	23.0
10-15-79	3(90)	3.0	0.00	0.42	25.0	23.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued)

Date	Standard plate counts/ml SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
10-16-79	12/3[c] (200/74[c])	2.1/2.9[c]	0.00	0.67	25.5	25.5
10-17-79	1100[b] (10000[b])	1.6[b]	0.00	0.56	25.5	25.5
10-18-79	2[c] (17[c])	1.4[c]	--	0.15	25.5	26.5
10-19-79	69/0[c] (320/0[c])	1.6/2.7[c]	0.00	1.01	26.0	26.5
10-22-79	51/360[b] (800/390[b])	2.1/1.3[b]	0.00	0.96	26.5	25.0
10-23-79	240/0[b] (510/80[b])	1.9/1.5[b]	0.00	1.49	25.5	25.5
10-24-79	9200(11000)	2.5	0.04	1.10	24.5	24.5
10-25-79	34[a]/74[c] (31[a]/80[c])	1.3[a]/1.6[c]	0.00	0.36	24.5	24.5
10-28-79	(0[a]/5[b]) (90[a]/41[b])	2.5[a]/3.2[b]	0.00	--	25.0	26.0
10-29-79	0(0)	1.8	0.00	0.13	25.5	25.5
10-30-79	0/0[b] (0/560[b])	3.1/4.9[b]	0.00	0.19	25.0	25.0
11-1-79	12(11)	2.7	0.00	0.13	24.5	25.5
11-4-79	67/130[c] (70/140[c])	2.5/2.8[c]	0.00	0.69	24.0	22.5
11-6-79	45(54)	3.2	0.00	0.10	23.0	24.5

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S87. (continued).

Date	Standard plate counts/ml: SPC 1 48 hr (SPC 2 120 hr)	Endotoxin (ng/ml)	Free chlorine[1] (µg/ml)	Free chlorine[2] (µg/ml)	Water temperature (°C)	Ambient laboratory temperature (°C)
11-11-79	89[b](140[b])	1.7[b]	0.00	0.02	22.5	22.5
11-12-79	35(37)	3.0	0.00	0.12	22.0	23.0
11-14-79	210(320)	2.5	0.00	0.12	23.0	25.5
11-18-79	160[b](160[b])	2.4[b]	0.00	0.06	20.5	21.0

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

1 = measured after water has stagnated in plumbing overnight
2 = measured on afternoon running water samples

TABLE S88. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Argenion. Run numbers 2-10-2 and 2-10-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
			SPC 1/48 hr		SPC 2/120 hr						
c	02-28-79	8	1100	(1000)	--	(--)	3.8	(1.2)	0.04	(0.21)	10
	03-4-79	202	3200	(840)	3100	(--)	2.3	(2.5)	0.00	(0.00)	--
	03-7-79	352	1100	(580)	470	(570)	6.2	(2.2)	0.02	(0.02)	4
a	03-9-79	352	6000	(<10[d])	4700	(<10[d])	4.2	(<0.1)	0.04	(0.00)	5
	03-20-79	847	60	(1700)	300	(2000)	2.1	(2.4)	0.00	(0.00)	4
	04-9-79	1739	1300	(60)	2400	(130)	7.3	(4.2)	0.00	(0.00)	---
b	04-15-79	1739	18000	(4500)	24000	(4400)	4.2	(0.9)	0.07	(0.00)	--
c	04-15-79	8	320	(30)	370	(30)	3.8	(2.0)	0.00	(0.30)	9
	04-22-79	267	100	(790)	150	(1000)	3.4	(5.0)	0.00	(0.02)	5
	04-28-79	531	810	(20)	800	(10)	1.7	(2.8)	0.00	(0.00)	4
a	04-30-79	531	2200	(540)	1700	(440)	1.6	(4.5)	0.00	(0.00)	3
	05-3-79	659	300	(10)	410	(<10[d])	1.1	(4.4)	0.01	(0.00)	14
c	05-3-79	676	1500	(2400)	1600	(2800)	2.5	(--)	0.30	(0.70)	--
	05-15-79	1132	170	(30)	800	(40)	4.7	(2.2)	0.00	(0.00)	12
	06-10-79	2333	6000	(<10[d])	4800	(<10[d])	1.4	(4.2)	0.00	(0.06)	13
b	06-15-79	2333	2400	(1900)	3700	(2200)	1.2	(3.0)	0.00	(0.00)	8

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S89. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE AND SILVER DATA
Unit: (New) Aqualux. Run numbers 2-21-2 and 2-21-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		Test unit effluent (control loop effluent) SPC/ml SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	07-23-79	26	130	(10)	100	(10)	4.0	(2.0)	0.00	(0.57)	5
	07-30-79	494	500	(36)	1200	(22)	5.4	(2.8)	0.00	(0.04)	2
	08-7-79	1051	610	(11)	1600	(0)	4.5	(--)	0.00	(0.00)	2
a	08-10-79	1101	800	(--)	130	(--)	2.2	(--)	0.00	(0.00)	--
	08-16-79	1506	430	(20)	1800	(20)	3.2	(7.3)	0.00	(0.00)	--
c	08-16-79	1531	130	(29)	200	(66)	1.6	(4.0)	0.00	(0.91)	--
	08-24-79	2035	450	(190)	480	(170)	--	(4.3)	0.00	(0.00)	3
b	08-30-79	2035	4400	(4200)	3300	(3900)	2.5	(2.2)	0.00	(0.00)	2
c	08-24-79	17	410	(--)	500	(--)	3.0	(--)	0.00	(0.77)	8
	08-31-79	477	600	(0)	710	(0)	4.0	(2.4)	0.00	(0.00)	2
	09-11-79	1213	0	(32)	220	(370)	1.6	(1.4)	0.00	(0.00)	--
a	09-14-79	1213	670	(690)	680	(610)	1.8	(1.9)	0.00	(0.00)	--
	09-19-79	1532	280	(280)	720	(2300)	0.7	(3.9)	0.00	(0.00)	3
c	09-26-79	1993	300	(10)	210	(20)	5.0	(2.0)	0.00	(0.33)	--
	09-27-79	2033	1900	(0)	670	(9)	4.5	(2.0)	0.00	(0.00)	2
b	10-2-79	2033	120	(8900)	300	(8600)	6.4	(2.1)	0.00	(0.00)	2

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml
[see reference (9), section 907-8]

TABLE S90. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: (New) Aqualux. Run numbers 2-30-2 and 2-30-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin) (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	09-14-79	16	55	(-)	67	(-)	1.5	(-)	0.00	(1.01)	4
	09-18-79	489	230	(4)	400	(70)	1.5	(3.4)	0.00	(0.00)	2
	09-26-79	1047	2200	(3)	6100	(20)	4.2	(2.1)	0.00	(0.00)	3
a	09-28-79	1047	1400	(780)	640	(18)	2.7	(2.0)	0.00	(0.00)	--
	10-4-79	1531	0	(0)	0	(1)	2.2	(2.4)	0.00	(0.00)	1
c	10-4-79	1557	2	(53)	600	(440)	5.1	(1.2)	0.00	(1.52)	--
	10-12-79	2042	86	(440)	88	(200)	3.2	(2.6)	0.00	(0.00)	2
b	10-17-79	2042	490	(103)	610	(--)	5.6	(1.6)	0.00	(0.00)	--
c	09-16-79	15	3	(3)	13	(1)	2.0	(4.2)	0.00	(1.21)	12
	09-23-79	498	840	(99)	660	(64)	1.1	(2.1)	0.00	(0.00)	2
	09-30-79	1024	610	(--)	350	(--)	3.6	(--)	0.00	(0.00)	2
a	10-2-79	1024	740	(6)	780	(67)	4.2	(2.5)	0.00	(0.00)	--
	10-8-79	1500	96	(930)	140	(910)	6.0	(3.3)	0.00	(0.02)	1
c	10-8-79	1526	290	(50)	330	(57)	6.3	(2.4)	0.00	(1.41)	<1
	10-16-79	2059	200	(12)	540	(200)	4.9	(2.1)	0.00	(0.00)	--
b	10-22-79	2059	6900	(360)	8700	(390)	3.8	(1.3)	0.00	(0.00)	8

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S91. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Continental. Run numbers 2-29-2 and 2-29-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	10-3-79	15	4300	(3)	7600	(1)	1.6	(1.0)	0.00	(0.76)
	10-8-79	179	480	(930)	910	(910)	6.6	(3.3)	0.00	(0.02)
	10-11-79	344	700	(5)	860	(8)	4.4	(2.4)	0.00	(0.14)
a	10-14-79	344	6900	(70)	1100	(110)	4.5	(2.1)	0.00	(0.00)
	10-19-79	538	40	(69)	63	(320)	4.9	(1.6)	0.00	(0.00)
c	10-19-79	586	0	(0)	11	(0)	4.6	(2.7)	0.00	(0.00)
	10-25-79	800	--	(74)	2200	(80)	6.4	(--)	0.00	(0.00)
b	10-30-79	800	6	(0)	1	(560)	4.2	(4.9)	0.00	(0.00)
c	10-4-79	30	140	(53)	170	(440)	5.8	(1.2)	0.00	(1.52)
	10-7-79	186	9300	(820)	1100	(1100)	7.6	(3.4)	0.00	(0.02)
	10-11-79	443	600	(5)	720	(8)	5.6	(2.4)	0.00	(0.14)
a	10-14-79	443	1000	(70)	1100	(110)	6.3	(2.1)	0.00	(0.00)
	10-16-79	553	440	(12)	1100	(200)	3.9	(2.1)	0.00	(0.00)
c	10-16-79	574	160	(3)	160	(74)	5.6	(2.9)	0.00	(0.00)
	10-22-79	886	840	(51)	7400	(800)	6.4	(2.1)	0.00	(0.00)
b	10-28-79	886	400	(5)	350	(41)	3.8	(3.2)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S92. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Culligan. Run numbers 2-26-2 and 2-26-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent endotoxin) (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	08-1-79	15	430	(3)	550	(0)	3.2	(2.1)	0.00	(0.91)
	08-10-79	999	200	(560)	97	(140)	1.7	(5.2)	0.00	(0.00)
	08-19-79	2106	410	(72)	690	(88)	2.4	(2.4)	0.00	(0.00)
a	08-21-79	2106	140	(800)	150	(730)	1.5	(3.2)	0.01	(0.00)
c	08-29-79	3160	230	(470)	310	(580)	2.5	(2.8)	0.00	(0.42)
	09-6-79	4234	1900	(2500)	1800	(1500)	4.0	(3.1)	0.00	(0.00)
b	09-11-79	4234	9	(32)	10	(370)	2.4	(-)	0.00	(0.00)
c	08-8-79	4	2600	(9)	2200	(11)	4.1	(-)	0.00	(1.01)
	08-19-79	1111	4300	(72)	4500	(88)	4.7	(2.4)	0.00	(0.00)
	08-27-79	2048	220	(5)	120	(12)	2.3	(2.8)	0.00	(0.10)
a	08-29-79	2048	160	(180)	180	(220)	1.8	(2.7)	0.00	(0.00)
	09-5-79	3018	160	($<10^d$)	140	($<10^d$)	4.8	(1.4)	0.00	(0.00)
c	09-5-79	3074	4100	(1500)	6300	(1700)	6.9	(1.4)	0.00	(0.55)
	09-14-79	4303	660	(130)	610	(430)	0.3	(3.5)	0.00	(0.00)
b	09-19-79	4303	230	(5900)	240	(2900)	3.3	(3.3)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S93. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Everpure QC4-THM. Run numbers 2-7-2 and 2-7-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	09-28-79	10	260	(--)	350	(--)	4.5	(--)	0.00	(0.35)
	10-01-79	239	470	(55)	350	(67)	4.4	(2.1)	0.00	(0.00)
	10-09-79	655	380	(940	1100	(910)	3.6	(1.9)	0.00	(0.00)
a	10-11-79	655	--	(2)	4	(4)	4.6	(2.9)	0.00	(0.00)
	10-14-79	817	480	(470)	670	(590)	4.2	(3.2)	0.00	(0.00)
c	10-14-79	837	690	(3)	800	(5)	4.0	(3.0)	0.00	(0.53)
	10-18-79	1064	280	(--)	530	(--)	4.0	(--)	0.00	(0.00)
b	10-23-79	1064	8800	(0)	11000	(80)	3.8	(1.5)	0.00	(0.00)
c	10-13-79	9	SAMPLES WERE CONTAMINATED							
	10-22-79	361	11000	(51)	9800	(800)	5.4	(2.1)	0.00	(0.00)
	10-25-79	547	610	(--)	560	(--)	4.5	(--)	0.00	(0.00)
a	10-28-79	547	8700	(0)	5500	(90)	5.6	(2.5)	0.00	(0.00)
	11-01-79	775	53	(12)	53	(11)	5.0	(2.7)	0.00	(0.00)
c	11-04-79	927	1600	(130)	990	(140)	5.2	(2.8)	0.00	(0.69)
	11-06-79	1022	340	(45)	400	(54)	5.7	(3.2)	0.00	(0.00)
b	11-11-79	1022	--	(89)	--	(140)	4.6	(1.7)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml
[see reference (9), section 907-8]

TABLE S94. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Mariner. Run numbers 2-19-2 and 2-19-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml[f] SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	07-19-79	15	<10[d]	(800)	<10[d]	(1600)	2.0	(1.9)	0.00	(0.14)	6
	08-12-79	1256	500	(40)	650	(50)	2.5	(6.5)	0.00	(0.00)	6
	08-16-79	1480	800	(20)	6100	(20)	1.3	(7.3)	0.00	(0.00)	--
a	08-19-79	1480	160	(420)	760	(390)	1.5	(10.8)	0.00	(0.00)	17
	08-31-79	2500	35	(0)	78	(0)	3.1	(2.1)	0.00	(0.00)	12
c	08-31-79	2522	<10[d]	(0)	30	(0)	3.6	(2.4)	0.15	(0.55)	--
	09-4-79	3870	250	(36)	250	(50)	4.6	(1.6)	0.00	(0.00)	10
b	09-9-79	3870	240	(1900)	610	(4200)	3.0	(1.4)	0.00	(0.00)	--
c	07-27-79	34	540	(0)	280	(0)	5.6	(2.4)	0.00	(0.11)	10
	08-24-79	751	530	(190)	830	(170)	--	(4.3)	0.00	(0.00)	11
	09-21-79	1505	245	(9)	470	(12)	2.4	(3.0)	0.00	(0.00)	26
a	09-23-79	1505	110	(8)	93	(50)	3.0	(3.6)	0.00	(0.00)	13
	10-11-79	2226	13	(5)	110	(8)	7.0	(2.4)	0.00	(0.14)	--
c	10-11-79	2243	1	(140)	7	(160)	3.2	(1.6)	0.23	(1.27)	--
	10-25-79	3146	18	(74)	16	(80)	4.4	(1.6)	0.00	(0.00)	12
b	10-30-79	3146	62	(0)	71	(560)	5.8	(4.9)	0.00	(0.00)	--

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S95. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Polarisdynamic. Run numbers 2-9-2 and 2-9-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
			SPC 1/48 hr		SPC 2/120 hr						
c	02-27-79	17	390	(<10[d])	--	(-)	2.8	(3.5)	0.00	(0.10)	10
	03-7-79	307	3900	(580)	4700	(570)	5.5	(2.2)	<0.02	(0.02)	6
a	03-9-79	307	1700	(420)	1000	(170)	5.5	(<.1)	0.00	(0.02)	4
	03-19-79	699	1300	(130	1600	(80)	2.2	(0.1)	0.00	(0.00)	16
	03-26-79	965	2900	(70)	--	(110)	26.9	(14.1)	0.00	(0.00)	20
	04-2-79	1268	2100	(70)	2500	(140)	4.7	(1.8)	0.00	(0.00)	--
	05-6-79	2668	6900	(310)	6000	(420)	3.0	(2.2)	0.02	(0.07)	--
b	05-11-79	2668	3800	(3700)	3500	(3900)	6.0	(2.6)	0.00	(0.00)	8
c	02-27-79	13	700	(<10[d])	--	(--)	4.2	(3.5)	0.00	(0.10)	15
	03-7-79	354	1400	(580)	2300	(570)	5.1	(2.2)	0.00	(0.02)	29
a	03-9-79	354	100	(420)	900	(170)	4.6	(<0.1)	0.00	(0.00)	5
	03-13-79	519	9300	(790)	14000	(320)	4.6	(3.3)	0.00	(0.08)	14
	03-14-79	577	3800	(190)	3300	(120)	7.8	(3.6)	0.00	(0.00)	--
	03-17-79	688	11000	(50)	1400	(110)	6.4	(2.6)	0.00	(0.00)	3
	03-24-79	979	12000	(100)	7600	(160)	20.3	(11.8)	0.00	(0.00)	5
	05-6-79	2824	4000	(310)	3700	(420)	5.6	(2.2)	0.00	(0.07)	5
b	05-11-79	2824	7100	(3700)	9200	(3900)	6.1	(2.6)	0.00	(0.00)	7

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S96. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Purogen. Run numbers 2-16-2 and 2-16-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	08-25-79	17	350	(50)	240	(73)	1.6	(1.4)	0.00	(0.61)
	09-4-79	1235	150	(36)	200	(50)	10.0	(1.6)	0.00	(0.00)
a	09-6-79	1235	1500	(400)	1700	(620)	4.8	(2.9)	0.00	(0.00)
	09-11-79	1852	58	(32)	430	(370)	1.5	(1.4)	0.00	(0.00)
c	09-11-79	1897	3	(8)	20	(3)	1.4	(2.6)	0.37	(0.55)
	09-19-79	2843	370	(280)	770	(2300)	1.0	(3.9)	0.00	(0.00)
b	09-24-79	2843	6300	(1600)	29000	(3900)	4.5	(2.1)	0.00	(0.00)
c	09-10-79	17	79	(63)	900	(67)	1.4	(2.1)	0.05	(1.10)
	09-15-79	644	98	(11)	730	(14)	3.9	(1.3)	0.00	(0.00)
	09-21-79	1238	510	(9)	2800	(12)	3.3	(3.0)	0.00	(0.00)
a	09-23-79	1238	630	(8)	750	(50)	7.6	(3.6)	0.00	(0.00)
	09-28-79	1839	2600	(30)	--	(18)	2.2	(2.4)	0.00	(0.05)
c	09-30-79	2089	38	(6)	38	(9)	2.8	(2.1)	0.09	(0.35)
	10-7-79	2924	111	(820)	48	(1100)	3.3	(3.4)	0.00	(0.02)
b	10-12-79	2924	6700	(6600)	8400	(6600)	2.9	(2.3)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S97. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Rohm & Haas. Run numbers 2-27-2 and 2-27-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	08-15-79	28	5700	(0)	6800	(0)	2.7	(2.4)	0.00	(1.12)
	08-21-79	823	70	(<10[d])	120	(<10[d])	1.9	(2.6)	0.00	(0.00)
	08-27-79	1807	43	(5)	42	(12)	2.8	(2.8)	0.10	(0.10)
a	08-29-79	1807	220	(180)	170	(220)	2.1	(2.7)	0.00	(0.00)
	09-4-79	2781	490	(36)	490	(50)	6.9	(1.6)	0.00	(0.00)
c	09-4-79	2843	--	(--)	800	(1100)	5.0	(3.8)	0.08	(0.59)
	09-9-79	3564	1500	(360)	140	(620)	2.6	(1.3)	0.00	(0.02)
b	09-14-79	3564	700	(690)	140	(610)	1.8	(--)	0.00	(0.00)
c	08-27-79	26	23	(23)	18	(21)	2.0	(1.6)	0.00	(0.31)
	09-9-79	1217	180	(360)	1600	(620)	3.3	(1.3)	0.00	(0.02)
	09-15-79	1773	18	(11)	17	(14)	3.7	(1.3)	0.00	(0.00)
a	09-17-79	1773	71	(5)	79	(5)	1.2	(4.5)	0.00	(0.00)
	09-27-79	2673	36000	(0)	20000	(9)	3.6	(2.0)	0.00	(0.00)
	10-7-79	3528	51	(820)	130	(1100)	4.2	(3.4)	0.00	(0.02)
b	10-12-79	3528	870	(6600)	1700	(6600)	6.0	(2.3)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S98. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Seagull IV. Run numbers 2-22-2 and 2-22-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml[c] SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	05-29-79	27	<10[d]	(30)	200	(30)	2.4	(3.2)	0.00	(0.86)
	06-3-79	718	4700	(20)	4000	(10)	6.8	(3.1)	0.00	(0.00)
	06-4-79	786	670	(30)	700	(10)	3.2	(2.7)	0.00	(0.00)
a	06-6-79	786	520	(7900)	1300	(8000)	4.8	(1.7)	0.00	(0.00)
c	06-11-79	1137	970	(<10[d])	990	(<10[d])	1.9	(--)	0.00	(1.09)
	06-16-79	1436	<10[d]	(<10[d])	<10[d]	(<10[d])	1.7	(6.4)	0.00	(0.00)
	07-15-79	3192	200	(40)	310	(30)	0.9	(3.4)	0.00	(0.00)
b	07-20-79	3192	15000	(1400)	5300	(2200)	4.0	(3.0)	0.00	(0.00)
c	07-23-79	24	610	(10)	750	(10)	3.7	(2.0)	0.00	(0.57)
	07-31-79	514	400	(0)	610	(0)	5.6	(2.4)	0.03	(0.04)
	08-5-79	865	4300	(0)	3100	(0)	3.8	(--)	0.00	(0.00)
a	08-7-79	865	2000	(11)	730	(0)	6.4	(--)	0.00	(0.00)
	08-12-79	1188	810	(40)	980	(50)	1.9	(6.5)	0.00	(0.00)
	08-20-79	1756	4000	(0)	--	(0)	1.7	(1.8)	0.00	(0.54)
b	08-25-79	1756	1600	(1100)	730	(580)	2.5	(2.8)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S99. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Ultrapure. Run numbers 2-20-2 and 2-20-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
			SPC 1/48 hr		SPC 2/120 hr						
c	05-28-79	23	55000	(20)	39000	(30)	8.0	(1.2)	0.00	(0.51)	13
	06-6-79	728	4400	(340)	350	(660)	5.4	(2.8)	0.00	(0.00)	3
	06-18-79	1706	<10[d]	(30)	410	(10)	2.1	(3.7)	0.00	(0.00)	--
a	06-20-79	1706	<10[d]	(<10[d])	<10[d]	(<10[d])	2.2	(3.2)	0.00	(0.28	<1
c	06-28-79	2335	<10[d]	(120)	<10[d]	(160)	2.2	(2.7)	0.21	(--)	--
	07-9-79	3075	190	(50)	160	(40)	5.4	(1.6)	0.00	(0.00)	2
b	07-14-79	3075	410	(100)	440	(110)	2.6	(3.0)	0.00	(0.00)	2
c	07-16-79	23	7100	(10)	630	(20)	1.1	(7.2)	0.00	(0.83)	<1
	07-26-79	789	7600	(100)	2900	(360)	4.2	(2.0)	0.00	(0.00)	<1
	08-3-79	1477	1100	(6)	630	(12)	4.5	(--)	0.03	(0.03)	<1
a	08-5-79	1477	4500	(310)	4300	(310)	5.1	(--)	0.00	(0.00)	<1
	08-16-79.	2271	4100	(20)	14000	(20)	2.8	(7.3)	0.00	(0.00)	2
c	08-16-79	2302	7500	(29)	3100	(66)	2.0	(4.0)	0.00	(0.91)	--
	08-25-79	3003	480	(4)	290	(0)	1.2	(2.1)	0.00	(0.00)	<1
b	08-30-79	3003	13000	(4200)	14000	(3900)	2.0	(2.2)	0.00	(0.00)	--

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S100. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Waterco. Run numbers 2-13-2 and 2-13-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	03-22-79	36	890	(<10[d])	2200	(10)	1.2	(0.2)	0.00	(0.25)	4
	03-26-79	720	100	(70)	1900	(110)	29.8	(14.1)	0.00	(0.00)	5
	03-29-79	1292	420	(<10[d])	390	(<10[d])	26.9	(11.9)	0.00	(0.03)	<1
a	03-31-79	1292	3800	(440)	4000	(610)	8.2	(3.3)	0.00	(0.00)	2
	04-2-79	1679	980	(70)	1900	(140)	2.0	(1.8)	0.00	(0.00)	7
c	04-3-79	1894	11000	(70)	12000	(60)	9.7	(3.7)	0.22	(0.39)	--
	04-9-79	3027	1700	(60)	2900	(130)	8.4	(4.2)	0.00	(0.00)	13
b	04-15-79	3027	25000	(4500)	12000	(4400)	3.4	(0.9)	0.00	(0.00)	4
c	04-20-79	33	280	(<10[d])	90	(<10[d])	2.4	(6.0)	0.00	(0.32)	1
	04-23-79	540	510	(130)	430	(96)	3.4	(4.9)	0.00	(0.00)	<1
	04-28-79	1316	440	(20)	380	(10)	1.8	(2.8)	0.00	(0.00)	1
a	04-30-79	1316	2500	(540)	4800	(440)	2.5	(4.5)	0.05	(0.00)	<1
	05-3-79	1941	90	(10)	160	(<10[d])	1.6	(4.4)	0.08	(0.00)	3
c	05-3-79	1996	1300	(2400)	1700	(2800)	0.9	(4.7)	0.38	(0.70)	--
	05-6-79	2494	750	(310)	820	(420)	6.3	(2.2)	0.02	(0.07)	2
b	05-11-79	2494	9200	(3700)	9300	(3900)	6.1	(2.6)	0.00	(0.00)	2

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S101. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Aquaguard. Run numbers 2-31-2 and 2-31-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	10-8-79	1	10	(50)	15	(57)	6.6	(2.4)	0.13	(1.41)
	10-15-79	126	240	(3)	820	(90)	4.2	(3.0)	0.00	(0.00)
	10-23-79	268	210	(240)	330	(510)	4.8	(1.9)	0.00	(0.00)
a	10-25-79	268	6600	(34)	8000	(31)	6.8	(1.3)	0.19	(0.00)
	11-4-79	391	110	(67)	140	(70)	5.7	(2.5)	0.00	(0.00)
c	11-4-79	498	31	(130)	160	(140)	6.0	(2.8)	0.24	(0.67)
	11-12-79	509	140	(35)	120	(37)	5.8	(3.0)	0.00	(0.00)
b	11-18-79	509	110	(160)	130	(160)	6.2	(2.4)	0.00	(0.00)
c	10-12-79	1	440	(3)	480	(7)	6.0	(7.3)	0.16	(1.40)
	10-18-79	130	87	(--)	360	(--)	5.6	(--)	0.00	(0.00)
	10-23-79	267	0	(240)	52	(510)	4.9	(1.9)	0.00	(0.00)
a	10-25-79	267	13000	(34)	8200	(31)	4.3	(1.3)	0.14	(0.00)
	11-4-79	404	40	(67)	61	(70)	3.0	(2.5)	0.00	(0.00)
c	11-4-79	410	160	(130)	210	(140)	4.5	(2.8)	0.18	(0.69)
	11-12-79	520	70	(35)	90	(37)	5.5	(3.0)	0.00	(0.00)
b	11-18-79	520	550	(160)	540	(160)	4.2	(2.4)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S102. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Concept. Run numbers 2-14-2 and 2-14-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		Test unit effluent (control loop effluent) SPC/ml SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	04-9-79	3	20	(<10[d])	20	(<10[d])	8.6	(3.7)	0.04	(0.14)	8
	04-15-79	40	510	(130)	510	(140)	3.1	(2.0)	0.07	(0.02)	1
a	04-17-79	40	1700	(820)	5900	(1200)	4.8	(2.7)	0.00	(0.00)	1
c	04-18-79	42	1500	(10)	2400	(10)	3.4	(1.9)	0.15	(0.45)	2
	04-19-79	44	1300	(100)	1700	(180)	3.1	(1.9)	0.09	(0.08)	1
	04-20-79	46	990	(40)	940	(80)	3.7	(2.2)	0.00	(0.00)	<1
b	04-25-79	46	7900	(6100)	6100	(8100)	3.0	(5.6)	0.00	(0.00	<1
c	04-25-79	0	20	(30)	<10[d]	(30)	3.2	(5.4)	0.75	(0.59)	<1
	04-26-79	6	--	(20)	--	(<10[d])	--	(7.1)	0.16	(0.00)	3
	04-27-79	12	<100[d]	(170)	170	(10)	2.7	(4.5)	0.00	(0.00)	4
	04-30-79	21	110	(510)	100	(340)	2.0	(3.5)	0.00	(0.02)	2
a	05-2-79	21	20	(1700)	10	(2000)	2.2	(2.5)	0.00	(0.00)	2
c	05-5-79	29	10[d]	(<10[d])	10[d]	(<10[d])	4.9	(2.6)	0.25	(0.72)	--
	05-12-79	41	<10[d]	(<10[d])	<10[d]	(<10[d])	5.4	(2.7)	0.00	(0.00)	4
b	05-17-79	41	90	(1300)	130	(1200)	4.1	(4.3)	0.00	(0.00)	4

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S103. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Filter Fresh. Run numbers 2-17-2 and 2-17-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml[f] SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	05-14-79	1	7900	(80)	7500	(40)	4.4	(2.4)	0.14	(0.86)
	05-16-79	220	81000	(--)	5200	(--)	4.1	(--)	0.00	(--)
	05-17-79	290	4100	(30)	2900	(20)	7.0	(2.5)	0.00	(0.00)
a	05-20-79	290	380	(3800)	1400	(3900)	7.0	(3.1)	0.00	(0.00)
	05-23-79	545	18000	(40)	8900	(<10[d])	3.9	(3.3)	<0.02	(0.00)
c	05-27-79	1064	20	(2100)	10	(1200)	4.0	(1.6)	0.26	(0.40)
	05-29-79	1257	1400	(<10[d])	3000	(<10[d])	8.4	(1.5)	0.00	(0.00)
b	06-3-79	1257	4800	(730)	3800	(1000)	5.4	(3.1)	0.00	(0.00)
c	05-22-79	1	<10[d]	(-)	60	(-)	5.6	(-)	0.06	(0.84)
	05-23-79	113	30	(40)	20	(<10[d])	5.6	(3.3)	0.00	(0.00)
	05-25-79	359	<10[d]	(220)	<10[d]	(170)	4.8	(3.0)	0.00	(0.00)
a	05-27-79	359	25000	(770)	73000	(20)	8.2	(1.8)	0.00	(0.00)
	05-28-79	455	5000	(90)	6000	(130)	6.6	(3.3)	0.00	(0.00)
c	05-28-79	501	580	(20)	1100	(30)	4.6	(1.2)	0.23	(0.51)
	06-5-79	1203	13000	(<10[d])	13000	(40)	4.1	(3.1)	0.00	(0.00)
b	06-10-79	1203	10000	(570)	11000	(3800)	2.5	(4.8)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S104. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Hurley. Run numbers 2-8-2 and -8-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	02-20-79	8	100	(140)	--	(-)	5.1	(2.2)	0.00	(1.15)
	03-1-79	562	200	(<10[d])	--	(-)	4.2	(1.8)	0.00	(0.00)
a	03-3-79	562	3700	(1700)	2800	(-)	6.9	(2.2)	0.00	(0.00)
c	03-8-79	900	<100[d]	(30)	<100[d]	(30)	4.9	(2.4)	0.00	(0.00)
	03-11-79	1069	4600	(320)	5500	(440)	6.2	(3.5)	0.00	(0.00)
	03-16-79	1443	2900	(70)	2700	(70)	10.7	(3.0)	0.00	(0.00)
	03-21-79	1767	14000	(260)	11000	(230)	5.8	(1.6)	0.00	(0.00)
	04-25-79	4165	2000	(220)	3900	(250)	2.7	(4.5)	0.00	(0.00)
b	04-30-79	4165	5400	(15000)	6700	(9500)	2.5	(4.2)	0.00	(0.00)
c	02-20-79	8	300	(140)	--	(-)	3.5	(2.2)	0.00	(1.15)
a	03-3-79	645	12000	(1700)	9300	(-)	7.3	(2.2)	0.00	(0.00)
c	03-8-79	1000	35	(-)	35	(-)	5.6	(2.4)	0.00	(0.00)
	03-11-79	1169	1300	(320)	1500	(440)	6.0	(3.5)	0.00	(0.00)
	03-21-79	1871	8600	(260)	6900	(230)	5.1	(1.6)	0.00	(0.00)
	03-26-79	2219	1100	(70)	1400	(110)	25.4	(14.1)	0.00	(0.00)
	04-25-79	4228	1600	(220)	1800	(250)	2.6	(4.5)	0.00	(0.00)
b	04-30-79	4228	6400	(15000)	7600	(9500)	1.5	(4.2)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S105. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Waterwasher. Run numbers 2-11-2 and 2-11-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
c	02-20-79	5	1500	(140)	--	(--)	4.5	(2.2)	0.10	(1.15)	6
	02-26-79	245	4900	(40)	--	(--)	6.4	(2.6)	0.00	(0.00)	--
	03-5-79	561	16000	(690)	1200	(70)	7.1	(2.4)	0.00	(0.00)	--
a	03-7-79	561	30000	(5500)	39000	(4700)	4.5	(2.6)	0.00	(0.00)	1
	03-12-79	769	7000	(30)	4200	(140)	7.1	(3.5)	0.00	(0.00)	<1
c	03-12-79	794	30	(270)	66	(380)	7.8	(4.6)	0.00	(0.00)	--
	03-18-79	1024	3900	(40)	5600	(110)	2.8	(1.8)	0.00	(0.00)	--
b	03-23-79	1024	210	(7600)	170	(5500)	4.2	(--)	0.00	(0.00)	<1
c	03-7-79	5	460	(--)	260	(--)	4.8	(--)	<0.02	(0.25)	9
	03-13-79	239	8500	(790)	4000	(320)	8.9	(3.5)	0.00	(0.08)	<1
	03-19-79	490	120	(130)	1900	(80)	5.1	(0.1)	0.00	(0.00)	<1
a	03-21-79	490	22000	(1600)	39000	(1500)	4.4	(2.0)	0.00	(0.00)	<1
	03-27-79	743	4100	(120)	4100	(320)	6.0	(12.7)	0.00	(0.00)	<1
c	03-28-79	800	2100	(20)	2000	(10)	6.0	(12.5)	0.10	(0.52)	--
	04-3-79	1034	13000	(1000)	14000	(1400)	3.4	(1.8)	<0.02	(0.00)	<1
b	04-8-79	1034	31000	(1700)	4900	(1700)	8.5	(5.2)	0.00	(0.00)	3

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S106. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Wunderbar. Run numbers 2-15-2 and 2-15-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		Test unit effluent (control loop effluent) SPC/ml SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	04-30-79	1	<10[d]	(<10[d])	<10[d]	(<10[d])	1.8	(4.7)	0.17	(0.46)
	05-2-79	18	210	(300)	190	(520)	1.7	(4.6)	0.03	(0.00)
	05-14-79	69	770	(<10[d])	2400	(<10[d])	6.1	(3.0)	0.01	(0.08)
	05-20-79	112	2000	(30)	1600	(130)	6.0	(3.1)	0.03	(0.00)
a	05-22-79	112	8900	(2300)	9800	(1700)	5.2	(2.8)	0.00	(0.00)
c	05-27-79	179	700	(2100)	440	(1200)	1.7	(1.6)	0.50	(0.40)
	05-28-79	193	1600	(90)	2000	(130)	2.5	(3.3)	0.00	(0.00)
	05-29-79	198	4600	(<10[d])	1000	(<10[d])	7.6	(1.5)	0.00	(0.00)
b	06-3-79	198	12000	(730)	11000	(1000)	6.2	(3.1)	0.00	(0.00)
c	06-4-79	1	440	(<10[d])	340	(<10[d])	3.4	(1.9)	0.35	(0.62)
	06-10-79	61	420	(<10[d])	800	(<10[d])	2.4	(4.2)	0.00	(0.06)
	06-15-79	110	1600	(<10[d])	1200	(10)	1.8	(3.8)	0.00	(0.00)
a	06-18-79	110	<10[d]	(20)	2800	(130)	3.4	(8.4)	0.00	(0.00)
	06-22-79	146	<10[d]	(<10[d])	<10[d]	(<10[d])	3.2	(3.7)	0.03	(0.00)
c	06-22-79	149	<10[d]	(<10[d])	<10[d]	(<10[d])	2.1	(1.8)	1.13	(1.17)
	06-28-79	198	<10[d]	(<10[d])	40	(80)	2.4	(1.3)	0.07	(0.00)
b	07-3-79	198	<10[d]	(<10[d])	180	(<10[d])	3.7	(2.8)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S107. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: AMF CUNO. Run numbers 2-25-2 and 2-25-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	07-5-79	18	<10[d]	(<10[d])	50	(200)	1.4	(1.1)	0.02	(1.10)
	07-10-79	983	100	(180)	30	(710)	1.5	(1.9)	0.02	(0.02)
	07-13-79	1564	<10[d]	(<10[d])	20	(30)	6.5	(3.2)	0.01	(0.12)
a	07-15-79	1564	110	(700)	220	(<10[d])	3.0	(2.6)	0.00	(0.00)
c	07-17-79	2091	200	(350)	270	(310)	1.1	(4.2)	0.20	(0.33)
	07-19-79	2490	120	(3)	1300	(6)	2.6	(--)	0.00	(0.14)
	07-25-79	4029	4	(2600)	8	(1500)	4.6	(2.5)	0.00	(0.00)
b	07-30-79	4029	170	(170)	700	(310)	4.4	(3.6)	0.00	(0.00)
c	08-8-79	28	4600	(9)	3700	(11)	6.4	(--)	0.87	(1.01)
	08-12-79	1036	3600	(40)	6100	(50)	2.6	(6.5)	0.13	(0.00)
	08-14-79	1591	460	(0)	490	(0)	2.7	(5.8)	0.00	(0.00)
a	08-16-79	1591	440	(75)	360	(41)	1.4	(7.8)	0.00	(0.00)
	08-19-79	2492	95	(72)	510	(88)	3.0	(2.4)	0.00	(0.00)
c	08-19-79	2605	600	(280)	260	(400)	2.9	(3.5)	0.47	(0.61)
	08-25-79	4152	740	(4)	1300	(0)	2.6	(2.1)	0.00	(0.00)
b	08-30-79	4152	5000	(4200)	3600	(3900)	3.0	(2.2)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S108. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Filterite. Run numbers 2-28-2 and 2-28-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml SPC 1/48 hr		SPC 2/120 hr		Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
c	09-16-79	10	140	(3)	50	(1)	1.2	(4.2)	0.00	(1.21)
	09-18-79	740	750	(4)	970	(70)	0.8	(3.4)	0.00	(0.00)
	09-23-79	1785	1000	(99)	40	(64)	7.6	(2.1)	0.00	(0.00)
a	09-25-79	1785	6500	(400)	11000	(610)	8.0	(4.3)	0.00	(0.00)
	09-27-79	2236	5200	(0)	12000	(9)	2.5	(2.0)	0.00	(0.00)
c	09-30-79	2969	100	(6)	113	(9)	2.8	(2.1)	0.07	(0.35)
	10-2-79	3343	500	(43)	820	(190)	4.2	(1.2)	0.00	(0.00)
b	10-7-79	3343	4000	(9800)	4100	(10000)	2.6	(1.2)	0.00	(0.00)
c	09-20-79	19	1700	(43)	2000	(140)	1.6	(1.3)	0.05	(0.82)
	09-23-79	799	7200	(99)	5700	(64)	3.6	(2.1)	0.00	(0.00)
	09-26-79	1670	15000	(3)	2300	(20)	2.5	(2.1)	0.00	(0.00)
a	09-28-79	1670	15000	(780)	9200	(18)	4.2	(2.0)	0.00	(0.00)
	09-30-79	2214	7500	(--)	11000	(--)	5.0	(--)	0.00	(0.00)
c	09-30-79	2313	14	(6)	10	(9)	3.7	(2.1)	0.06	(0.35)
	10-4-79	3286	1100	(0)	3800	(1)	1.6	(2.4)	0.00	(0.00)
b	10-9-79	3286	1200	(22)	720	(720)	2.6	(2.2)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S109. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Fulflo. Run numbers 2-23-2 and 2-23-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	05-28-79	8	2300	(20)	4600	(30)	3.8	(1.2)	0.09	(0.51)
	05-31-79	619	7500	(<10[d])	5000	(50)	3.3	(--)	0.14	(0.00)
	06-4-79	1511	7500	(30)	4800	(10)	9.6	(2.7)	0.00	(0.00)
a	06-6-79	1511	4300	(7900)	5500	(8000)	6.8	(1.7)	0.00	(0.00)
	06-10-79	2381	6800	(<10[d])	7000	(<10[d])	1.9	(4.2)	0.05	(0.06)
c	06-10-79	2460	410	(<10[d])	390	(<10[d])	1.7	(4.7)	0.58	(0.91)
	06-15-79	3460	1100	(<10[d])	1700	(10)	2.2	(3.8)	0.00	(0.00)
b	06-20-79	3460	390	(<10[d])	450	(<10[d])	1.6	(6.4)	0.00	(0.00)
c	06-21-79	0	<10[d]	(<10[d])	<10[d]	(<10[d])	2.4	(5.6)	0.27	(1.05)
	06-26-79	766	220	(50)	440	(110)	2.5	(1.3)	0.00	(0.00)
	07-2-79	1492	<10[d]	(<10[d])	210	(<10[d])	3.3	(1.3)	0.00	(0.00)
a	07-5-79	1492	<10[d]	(10000)	<10[d]	(11000)	3.5	(1.4)	0.00	(0.00)
	07-12-79	2277	350	(320)	430	(350)	6.1	(2.9)	0.08	(0.18)
c	07-12-79	2325	<10[d]	(10)	<10[d]	(40)	5.0	(2.9)	0.70	(0.96)
	07-20-79	3325	2400	(370)	1700	(62)	3.5	(1.0)	0.37	(0.09)
b	07-25-79	3325	240	(6800)	550	(9500)	6.5	(3.2)	0.05	(0.00)

a = 2-day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S110. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Keystone. Run numbers 2-24-2 and 2-24-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	06-4-79	9	270	($<10^d$)	170	($<10^d$)	4.1	(1.9)	0.03	(0.62)
	06-8-79	808	110	(20)	1500	($<10^d$)	4.3	(2.5)	0.00	(0.00)
a	06-10-79	808	1200	($<10^d$)	1500	(30)	1.6	(4.8)	0.00	(0.00)
	06-13-79	1453	$<10^d$	(60)	$<10^d$	(40)	2.1	(5.5)	0.00	(0.00)
	06-18-79	2552	$<10^d$	(30)	$<10^d$	(10)	1.7	(3.7)	0.00	(0.00)
c	06-18-79	2641	$<10^d$	($<10^d$)	$<10^d$	($<10^d$)	1.2	(3.0)	0.49	(0.87)
	06-20-79	3019	$<10^d$	($<10^d$)	$<10^d$	($<10^d$)	1.1	(3.2)	0.09	(0.28)
b	06-25-79	3019	20	(40)	20	(30)	2.9	(2.1)	0.00	(0.00)
c	06-25-79	10	310	($<10^d$)	400	($<10^d$)	3.0	(1.6)	0.07	(1.29)
	06-29-79	934	130	(160)	310	(160)	4.0	(1.4)	0.00	(0.03)
	07-7-79	2575	500	(60)	500	(70)	6.5	(1.7)	0.00	(0.00)
a	07-9-79	2575	160	(150)	160	(140)	5.8	(1.6)	0.00	(0.00)
	07-10-79	2792	80	(180)	100	(710)	4.8	(1.9)	0.00	(0.02)
c	07-10-79	2870	70	(70)	100	(70)	6.1	(3.2)	0.79	(1.20)
	07-15-79	3878	30	(40)	220	(30)	0.9	(3.4)	0.00	(0.00)
b	07-20-79	3878	5400	(1400)	4300	(2200)	--	(3.0)	0.09	(0.14)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S111. STANDARD PLATE COUNT, ENDOTOXIN, AND CHLORINE DATA
Unit: Fabulous Filbrook. Run numbers 2-18-2 and 2-18-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)	
			SPC 1/48 hr		SPC 2/120 hr					
c	05-28-79	1	340	(20)	510	(30)	3.5	(1.2)	0.00	(0.51)
	05-31-79	85	40	(<10[d])	20	(50)	2.8	(--)	0.00	(0.00)
	06-1-79	118	20	(<10[d])	40	(90)	6.2	(1.6)	0.00	(0.00)
a	06-3-79	118	5300	(70)	5400	(200)	4.4	(2.4)	0.00	(0.00)
	06-4-79	144	100	(30)	--	(10)	5.1	(2.7)	0.00	(0.00)
c	06-5-79	188	30	(20)	790	(30)	4.3	(1.6)	0.05	(0.86)
	07-20-79	1278	1000	(370)	860	(62)	--	(1.0)	0.04	(0.09)
b	07-25-79	1278	8000	(6800)	7800	(9500)	6.5	(3.2)	0.00	(0.00)
c	06-5-79	1	50	(20)	60	(30)	3.2	(1.6)	0.00	(0.86)
	06-7-79	33	670	(40)	470	(110)	4.4	(1.8)	0.00	(0.00)
	06-11-79	81	1200	(--)	1000	(--)	2.1	(--)	0.00	(0.00)
a	06-13-79	81	80	(30)	20	(40)	1.5	(5.5)	0.00	(0.00)
	06-18-79	187	10[d]	(30)	10[d]	(10)	1.2	(3.7)	0.00	(0.00)
c	06-18-79	198	<10[d]	(<10[d])	<10[d]	(<10[d])	3.6	(3.0)	0.17	(0.87)
	06-19-79	215	<10[d]	(<10[d])	<10[d]	(<10[d])	2.0	(2.2)	0.00	(0.00)
	07-20-79	840	1000	(370)	70	(62)	2.5	(1.0)	0.00	(0.09)
b	07-25-79	840	6600	(6800)	7300	(9500)	6.2	(3.2)	0.00	(0.00)

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S112. STANDARD PLATE COUNT, ENDOTOXIN, CHLORINE AND SILVER DATA
Unit: Puriton. Run numbers 2-12-2 and 2-12-3
New Orleans Municipal Drinking Water

Sample type	Test date	Gallons processed	Test unit effluent (control loop effluent) SPC/ml				Test unit (control loop effluent) endotoxin (ng/ml)		Test unit (control loop effluent) free chlorine (ppm)		Test unit effluent silver (ppm)
			SPC 1/48 hr		SPC 2/120 hr						
c	04-17-79	2	70	(50)	40	(70)	3.4	(2.1)	0.05	(0.34)	10
	04-19-79	76	80	(100)	80	(180)	3.4	(1.9)	0.03	(0.08)	19
	04-20-79	119	100	(40)	20	(80)	5.4	(2.2)	0.00	(0.00)	11
a	04-22-79	119	740	(470)	960	(400)	2.7	(4.9)	0.00	(0.00)	8
	04-24-79	203	100	(340)	100	(410)	3.2	(6.4)	0.00	(0.00)	1
c	04-24-79	218	30[d]	(100)	30	(100)	2.4	(6.4)	0.10	(0.49)	--
	04-27-79	313	<10[d]	(170)	20	(10)	3.6	(4.5)	0.00	(0.00)	5
	05-17-79	1220	40	(30)	170	(20)	5.4	(2.5)	0.00	(0.00)	2
b	05-22-79	1220	--	(12000)	--	(10000)	7.0	(4.0)	0.00	(0.00)	5
c	05-17-79	1	80	(30)	90	(40)	3.8	(3.5)	0.00	(1.09)	9
	05-21-79	178	50	(<10[d])	20	(<10[d])	5.4	(4.8)	0.00	(0.00)	6
	05-22-79	234	25000	(30)	4900	(250)	4.6	(1.4)	0.00	(0.06)	--
a	05-24-79	234	14000[d]	(4300)	13000	(3600)	6.2	(2.8)	0.00	(0.00)	--
c	05-27-79	462	<10[d]	(2100)	1300	(1200)	8.0	(1.6)	0.08	(0.40)	--
	06-10-79	1113	330	(<10[d])	450	(<10[d])	2.0	(4.2)	0.00	(0.00)	4
b	06-15-79	1113	4100	(1900)	1700	(2200)	1.6	(3.0)	0.00	(0.00)	4

a = 2 day stagnation sample
b = 5 day stagnation sample
c = running water sample
d = estimated standard plate count/ml [see reference (9), section 907-8]

TABLE S113. BACTERIAL AND ENDOTOXIN EVALUATION OF NEW AND USED CARBON SAMPLES FROM TEST MODELS

Test model	Test run number	Unused Carbon		Used Carbon			
				Inlet Side		Outlet Side	
		SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)
Line bypass							
Aquacell	2-21-2	<100	10.2	<100	70	<100	3.6
	2-21-3			<100	8.6	<100	6.4
Aqualux	2-30-2	<100	--	<100	8.6	1100	11.6
	2-30-3			<100	4.8	100	15.6
Argenion	2-10-2	600	7.8	9000	1.8	300	1.6
	2-10-3			<100	38	51000	30
Continental	2-29-2	200	11.8	<100	14.8	400	12.2
	2-29-3			1000	10.2	<100	7.6
Culligan[a]	2-26-2	<100	12.6	100	88	<100	68[b]
	2-26-3			500	102	<100	128
Everpure	2-7-2	<100	--	300	13.4	<100	7.4
	2-7-3			<100	9	<100	9
Mariner	2-19-2	<100	9.6	500	24	--	22
	2-19-3			<100	8.6	<100	8.2
Polaris	2-9-2	100	11.4	2000	17.6	3000	16.8
	2-9-3			2000	8.8	1000	16.2
Purogen	2-9-2	<100	10.2	200	6	<100	8.6
	2-9-3			100	14.6	<100	17.6
Rohn & Haas[c]	2-27-2	400	9.4	100	30	200	22
	2-27-3			1500	10	2200	6.4

(continued)

TABLE S113. (continued)

Test model	Test run number	Unused Carbon		Used Carbon			
				Inlet Side		Outlet Side	
		SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)
Seagull IV	2-22-2	--[b]	--	--	--	--	--
	2-22-3						
Ultrapure	2-20-2	5400	14.2	--	22	--	26
	2-20-3			27000	--	1900	--
Waterco	2-13-2	100(upper)	18.5	2000	1.4	3000	2.4
	2-13-3	<200(lower)	38	100	17.6	100	9.4
			Faucet mount				
Aquaguard	2-31-2	<100	17.6	100	6.2	<100	11.6
	2-31-3			--	8.8	800	8.8
Concept	2-14-2	--[b]	--	--	--	--	--
	2-14-3						
Filterfresh	2-17-2	100	--	2500	24	3500	20
	2-17-3			9300	28	5400	26
Hurley	2-8-2	<100	7.4	100	0.4	100	2.4
	2-8-3			100	0.0	<100	0.0
Water Washer	2-11-2	500	15.6	<100	30	<100	28
	2-11-3			--	--	--	--
Wunderbar	2-15-2	--[b]	--	--	--	--	--
	2-15-3						

(continued)

TABLE S113. (continued)

Test model	Test run number	Unused Carbon		Used Carbon			
				Inlet Side		Outlet Side	
		SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)	SPC/g	Endotoxin (ng/g)
Stationary							
AMF-Cuno	2-25-2	<100	16.0	200	42	<100	30
				15000	88	19000	84
Fulflo	2-23-2	600	7.0	1000	19.8	700	26
	2-23-3			5000	18.4	2000	16
Keystone	2-24-2	--[b]	--	--	--	--	--
	2-24-3						
Filterite	2-28-2	--[b]	--	--	--	--	--
	2-28-3						
Pour through							
Filbrook	2-18-2	100	15.2	1300	34	<100	72
	2-18-3			9200	30	700	42
Puriton	2-12-2	<100	5.6	--	2	--	20
	2-12-3			<1000	22	<1000	1.74

[a] Unit sterilized with isopropanol.

[b] Due to unit design, aseptic powdered carbon and/or binder samples could not be obtained.

[c] Ambersorb® XE-340 resin used in this unit.

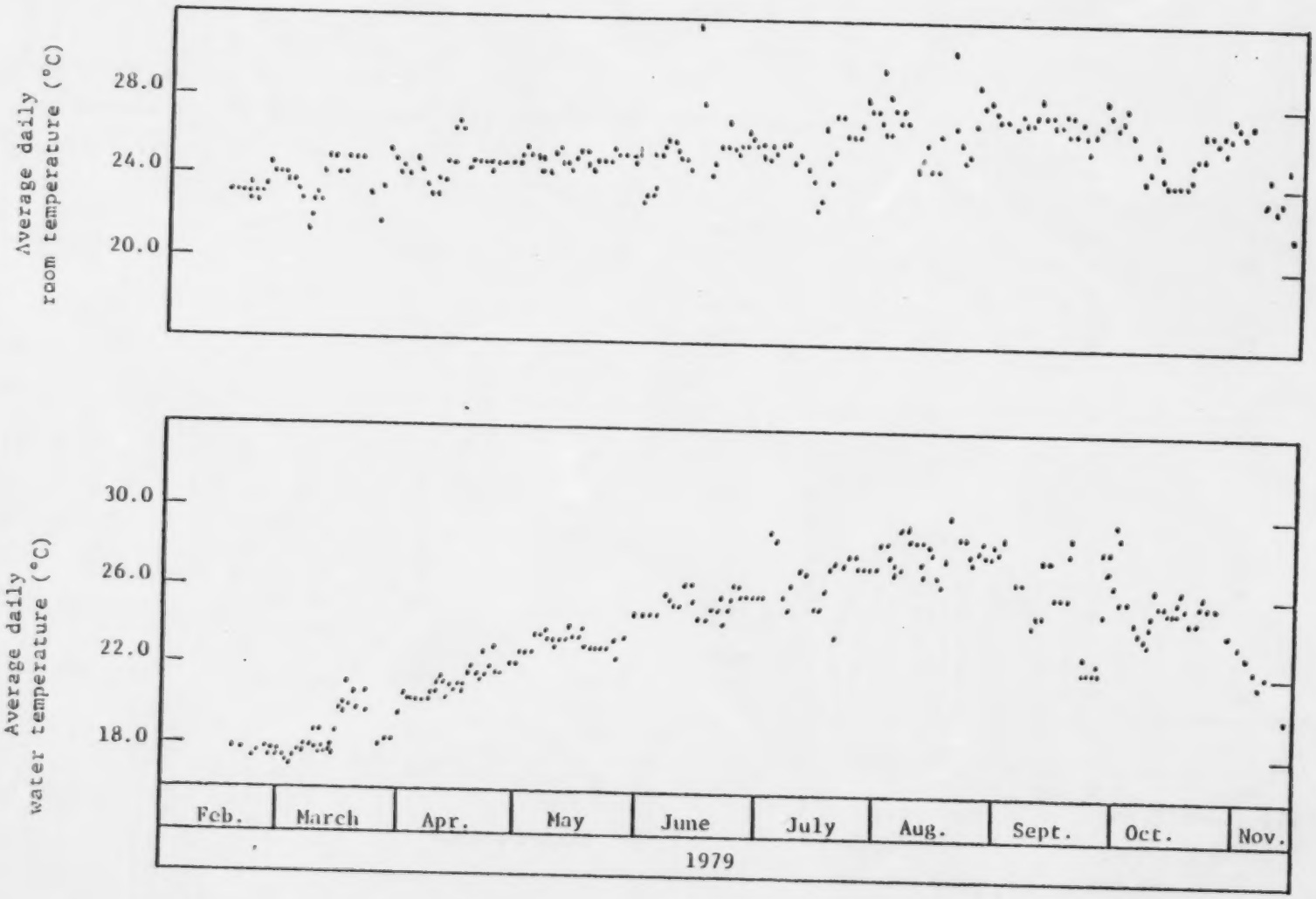

Figure S1. Room and water temperatures.

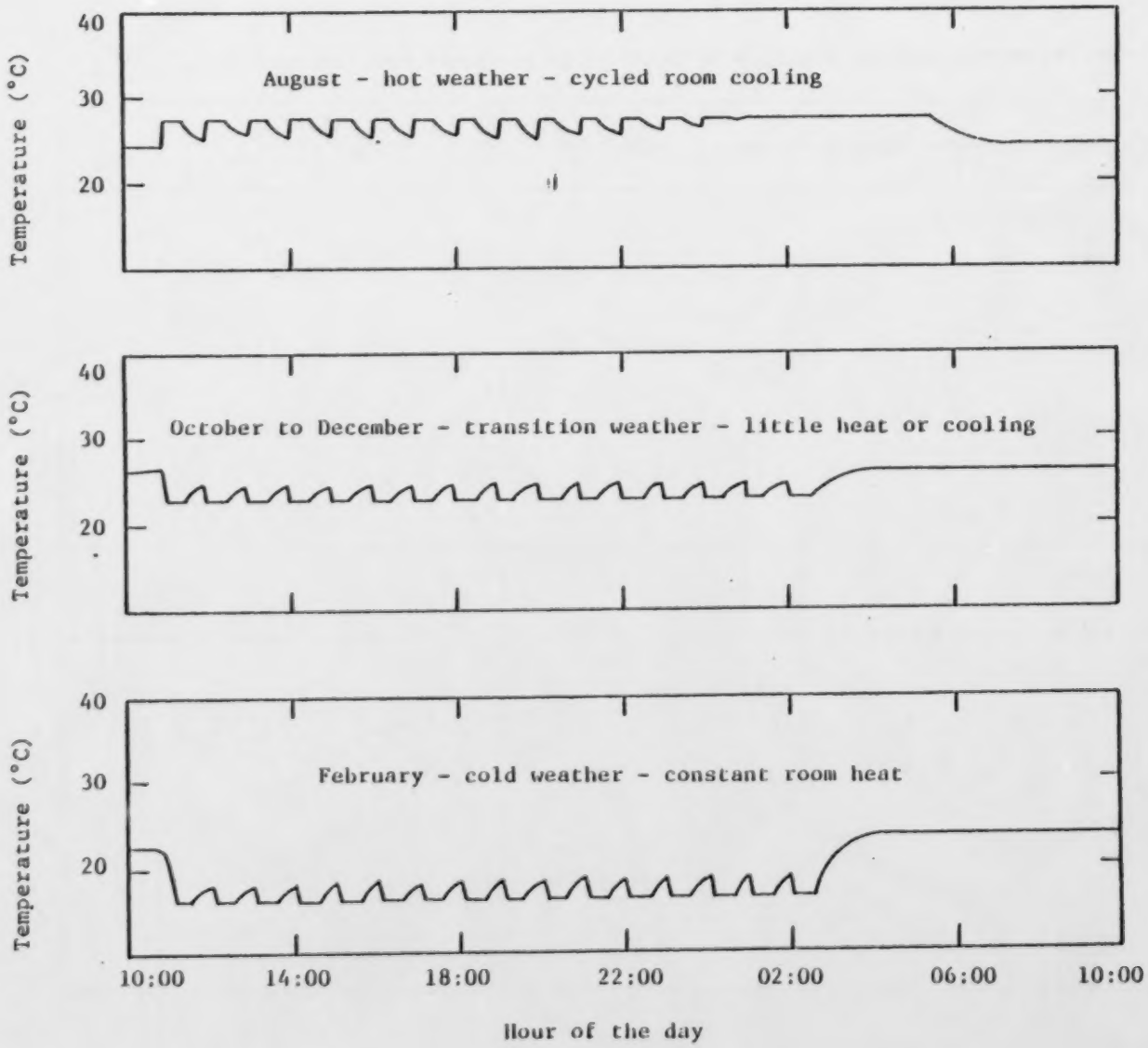

Figure S2. Typical 24 hour temperature exposure patterns.

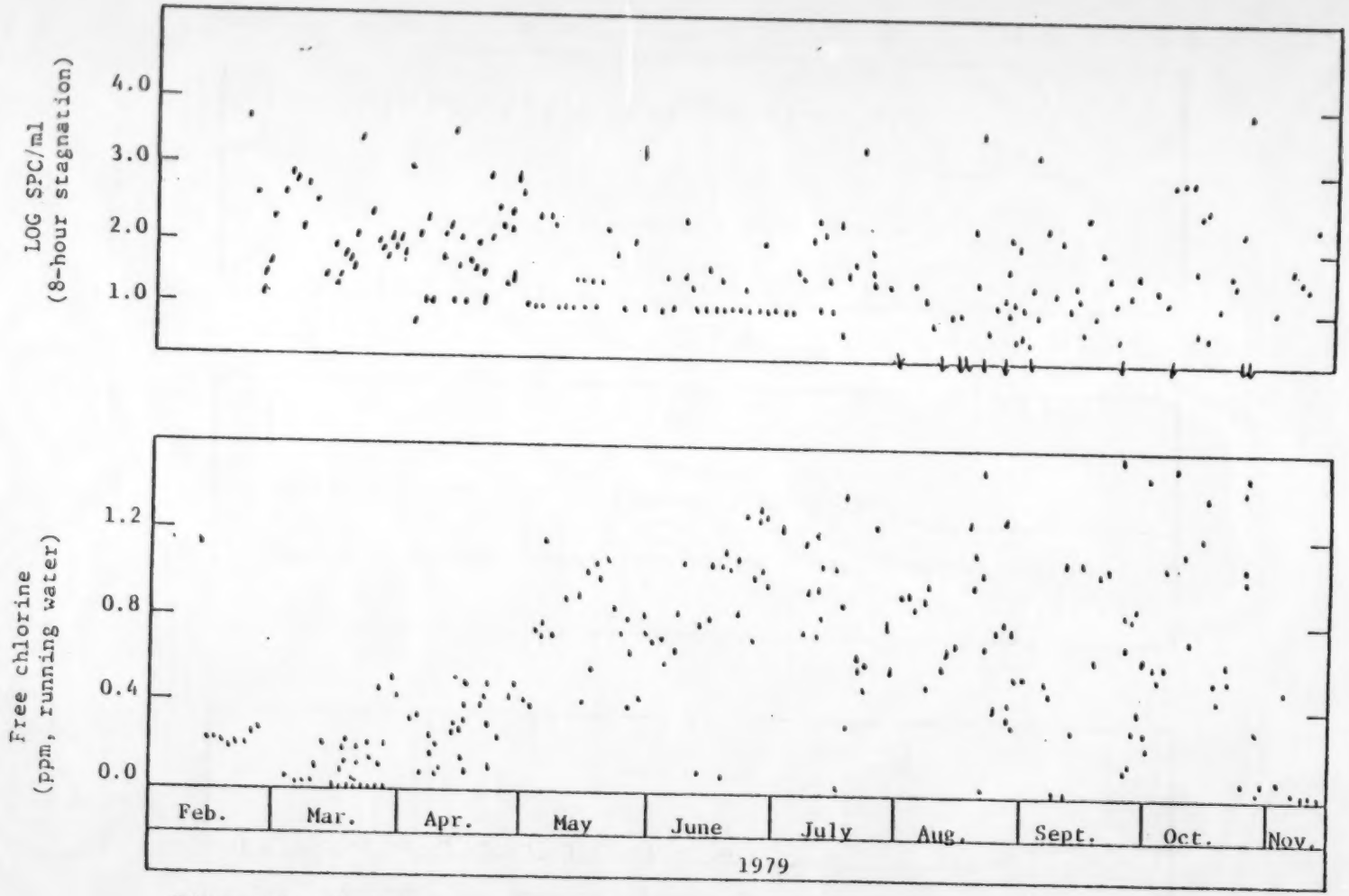

Figure S3. Control loop standard plate count and free chlorine concentrations.

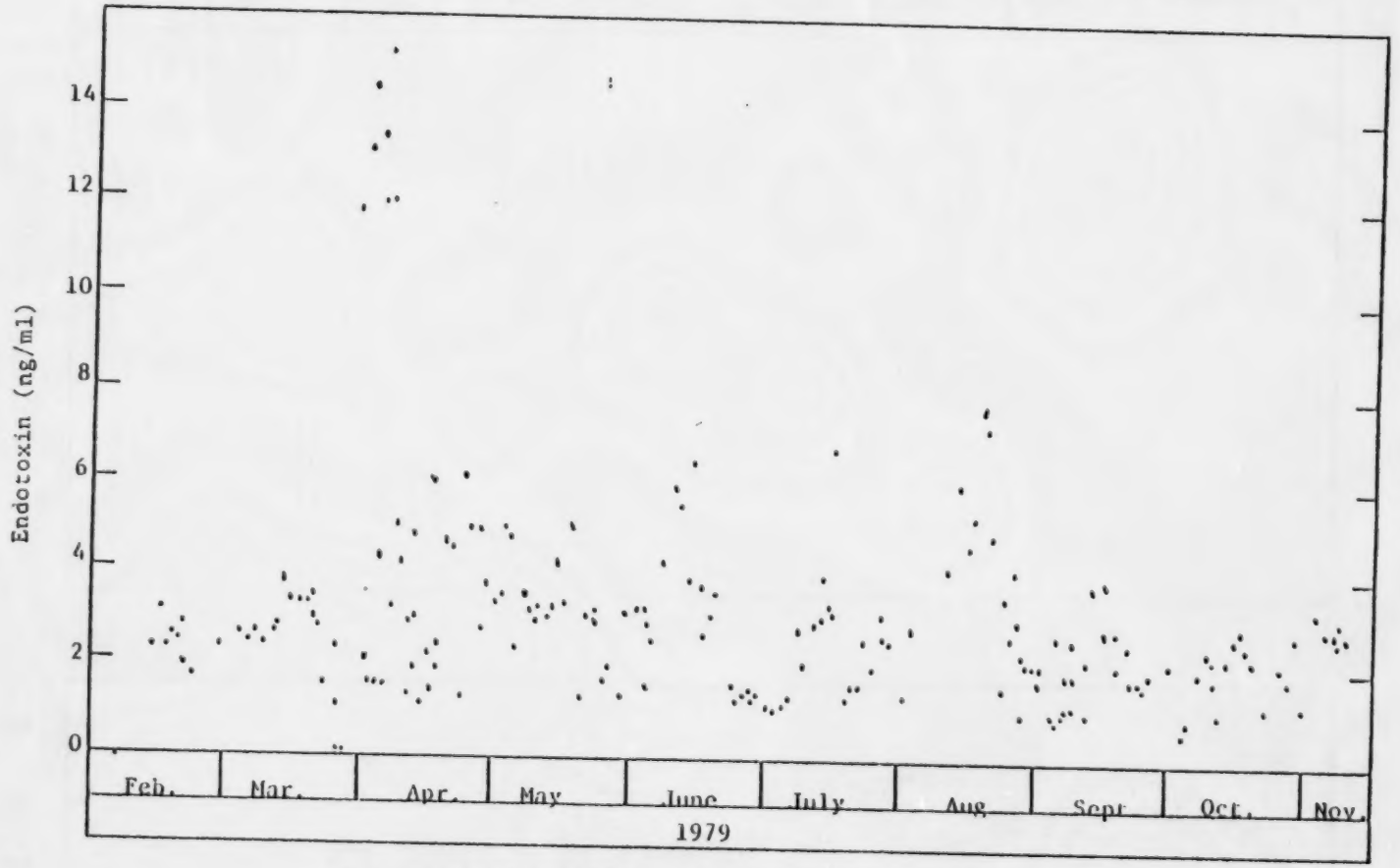

Figure S4. Control-loop endotoxin concentrations.

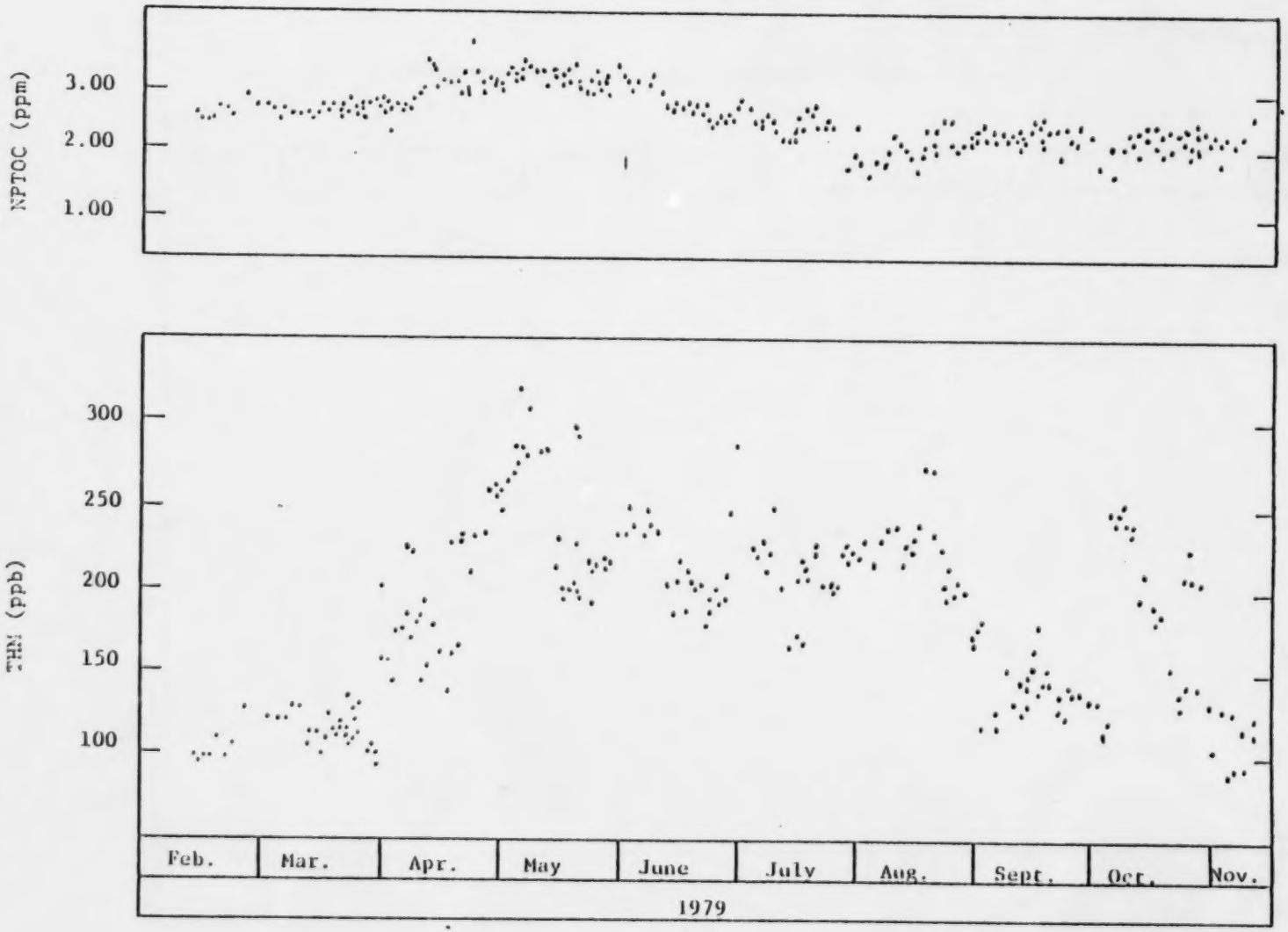

Figure S5. Influent THM and NPTOC concentrations.

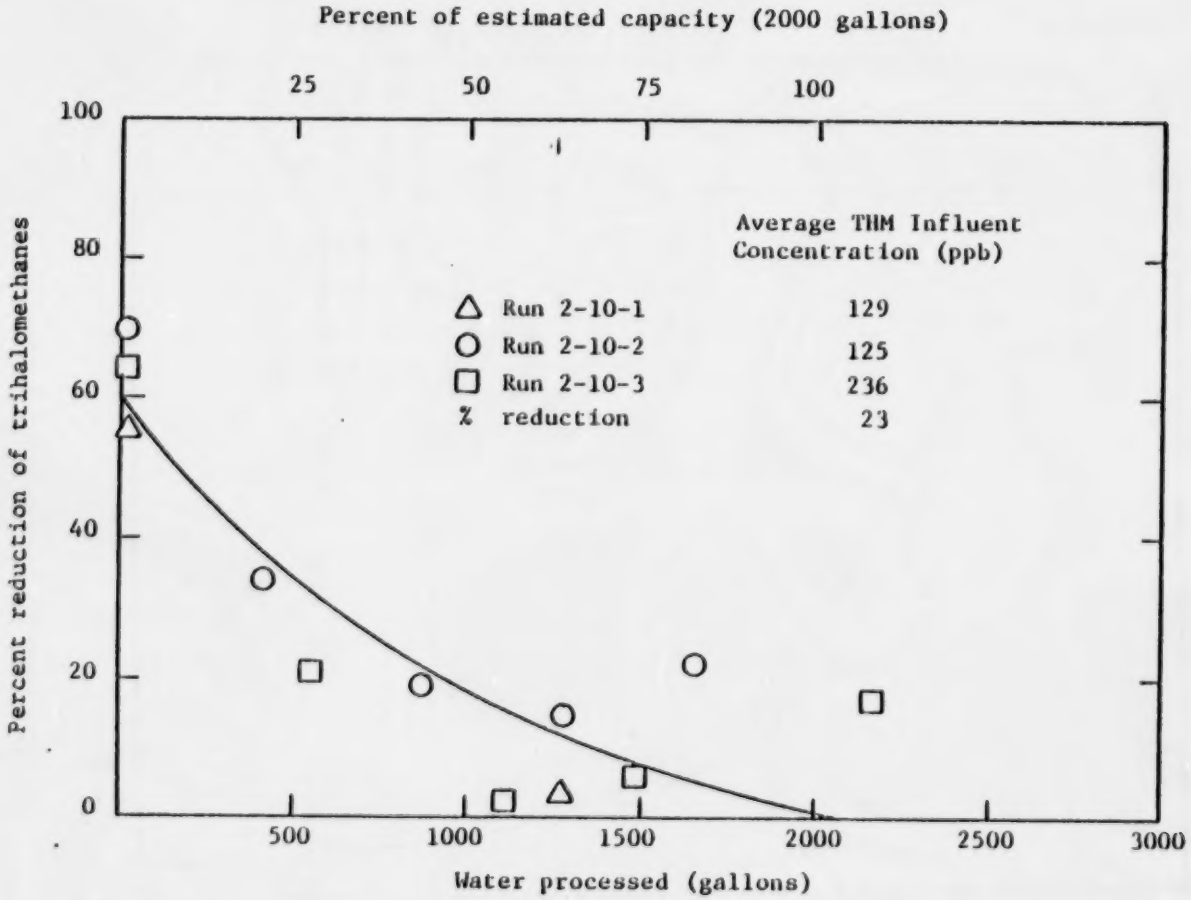

Figure S6. Summary performance of the Argenion Bacteriostatic, Model 1 unit for THM removal.

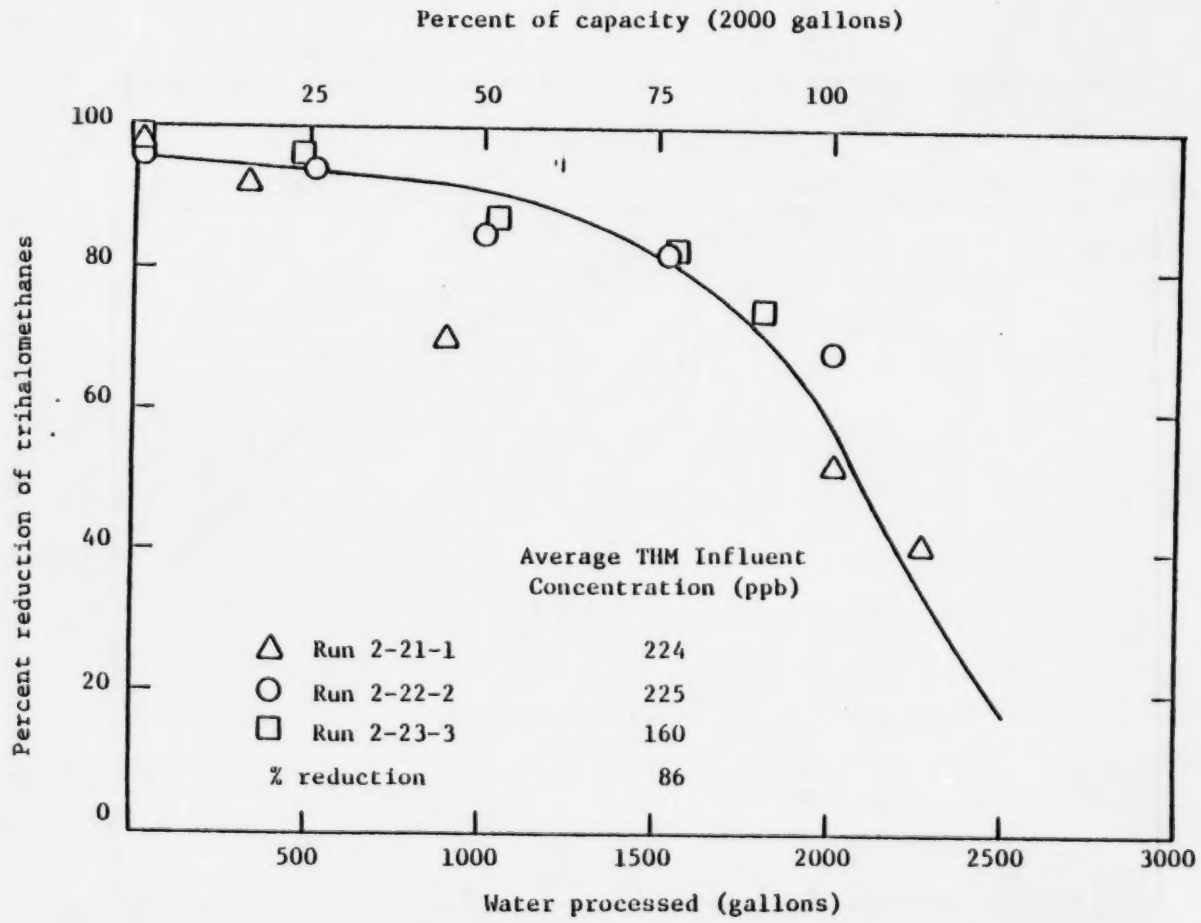

Figure S7. Summary performance of the Aquacell Bacteriostatic unit for THM removal.

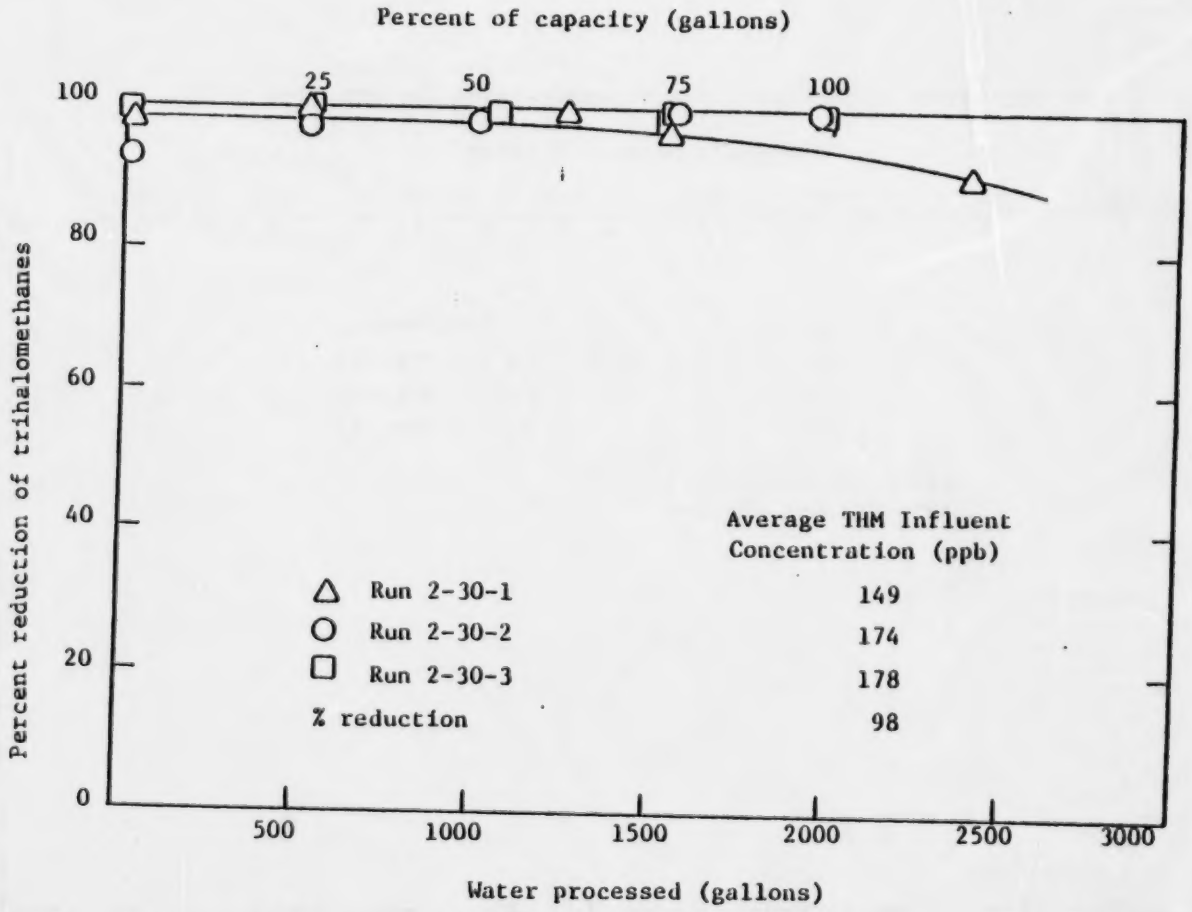

Figure S8. Summary performance of the Aqualux, Model CB-2 unit for THM removal.

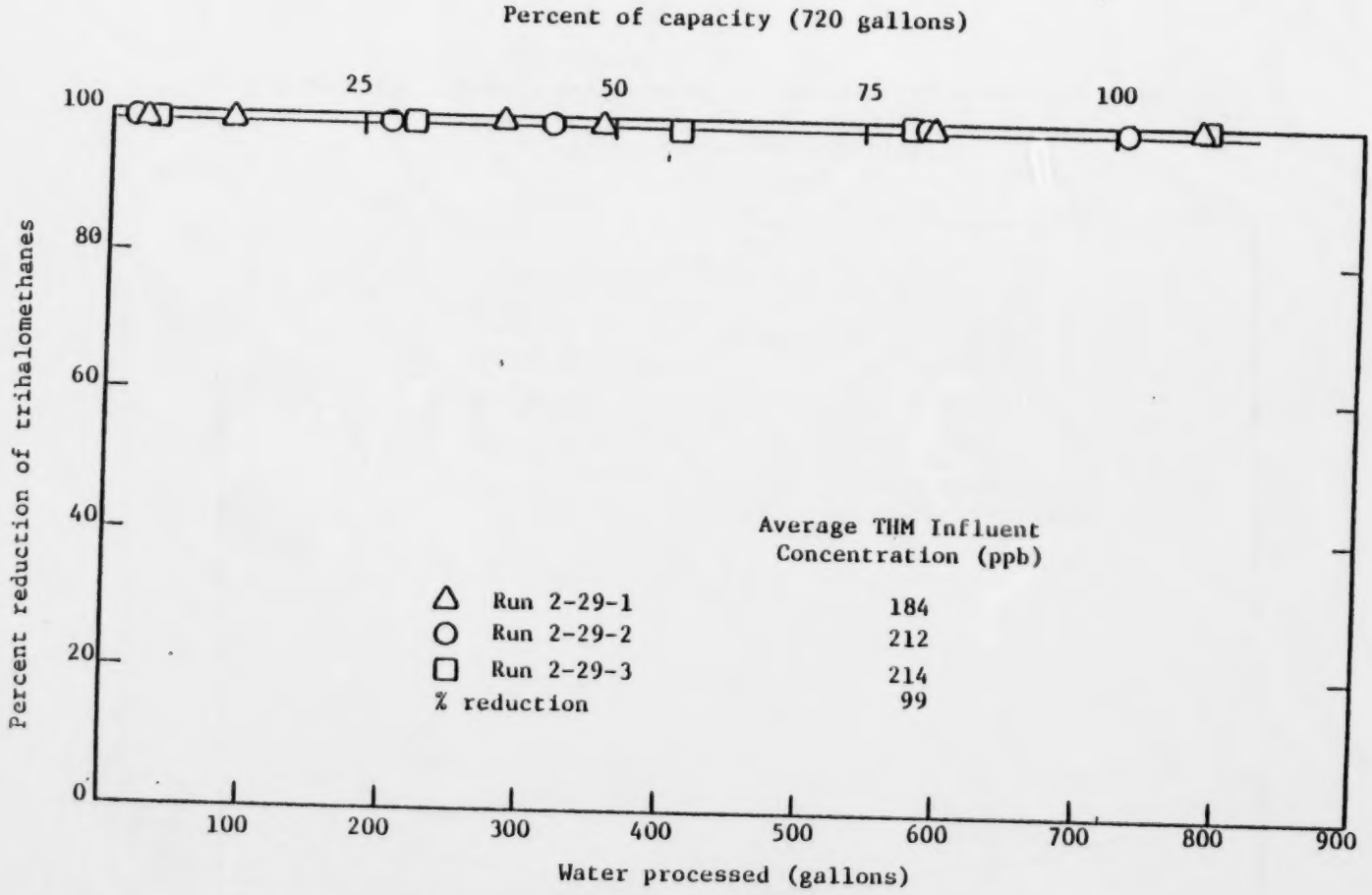

Figure S9. Summary performance of the Continental, Model 350 unit for THM removal.

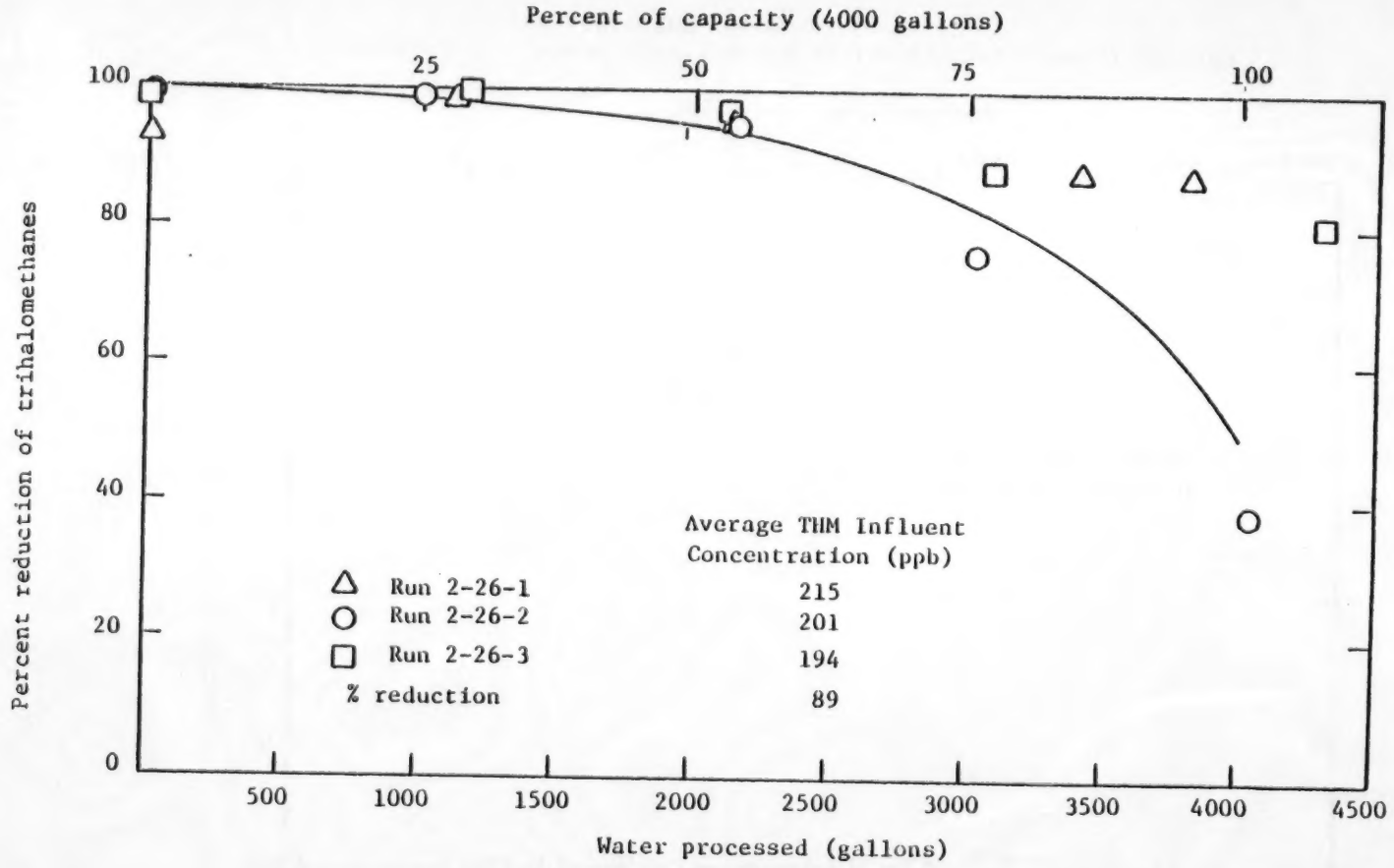

Figure S10. Summary performance of the Culligan, Model SG-2 unit for THM removal.

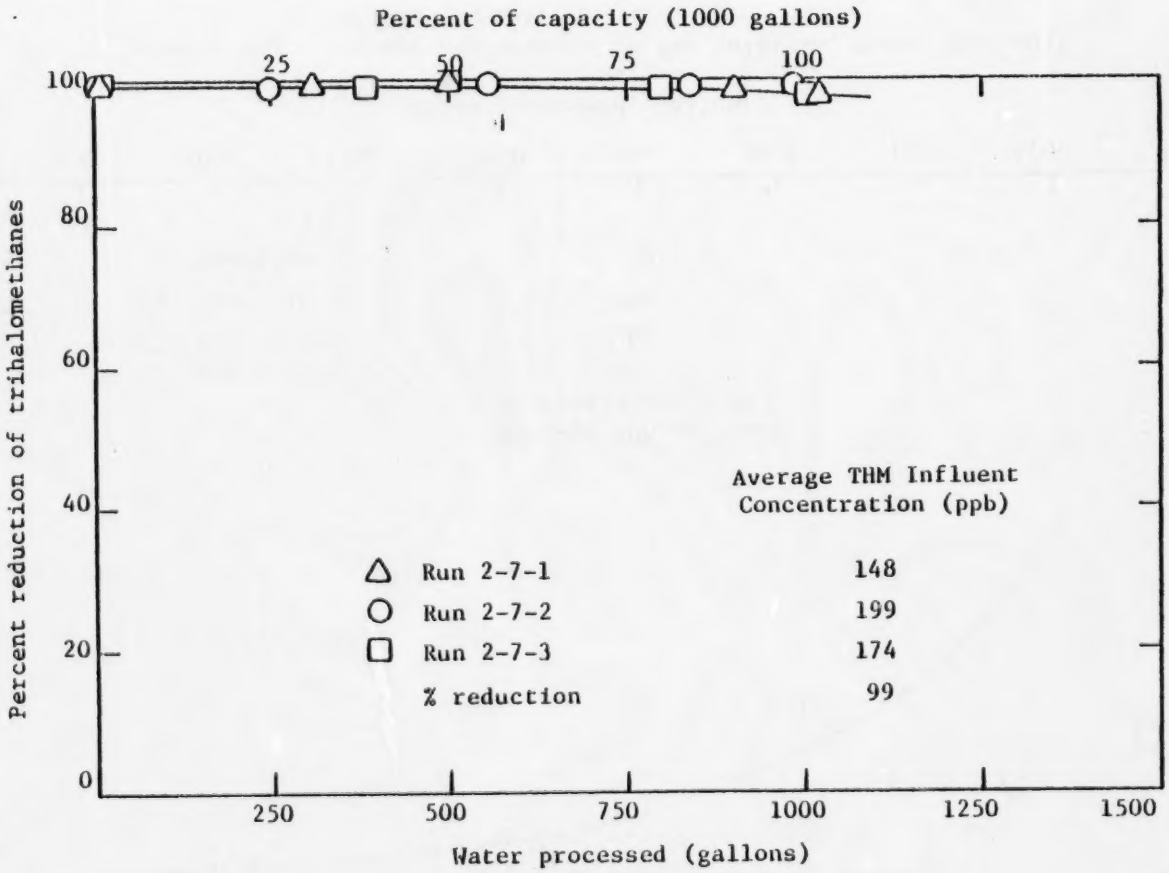

Figure S11. Summary performance of the Everpure, Model QC4-THM unit for THM removal.

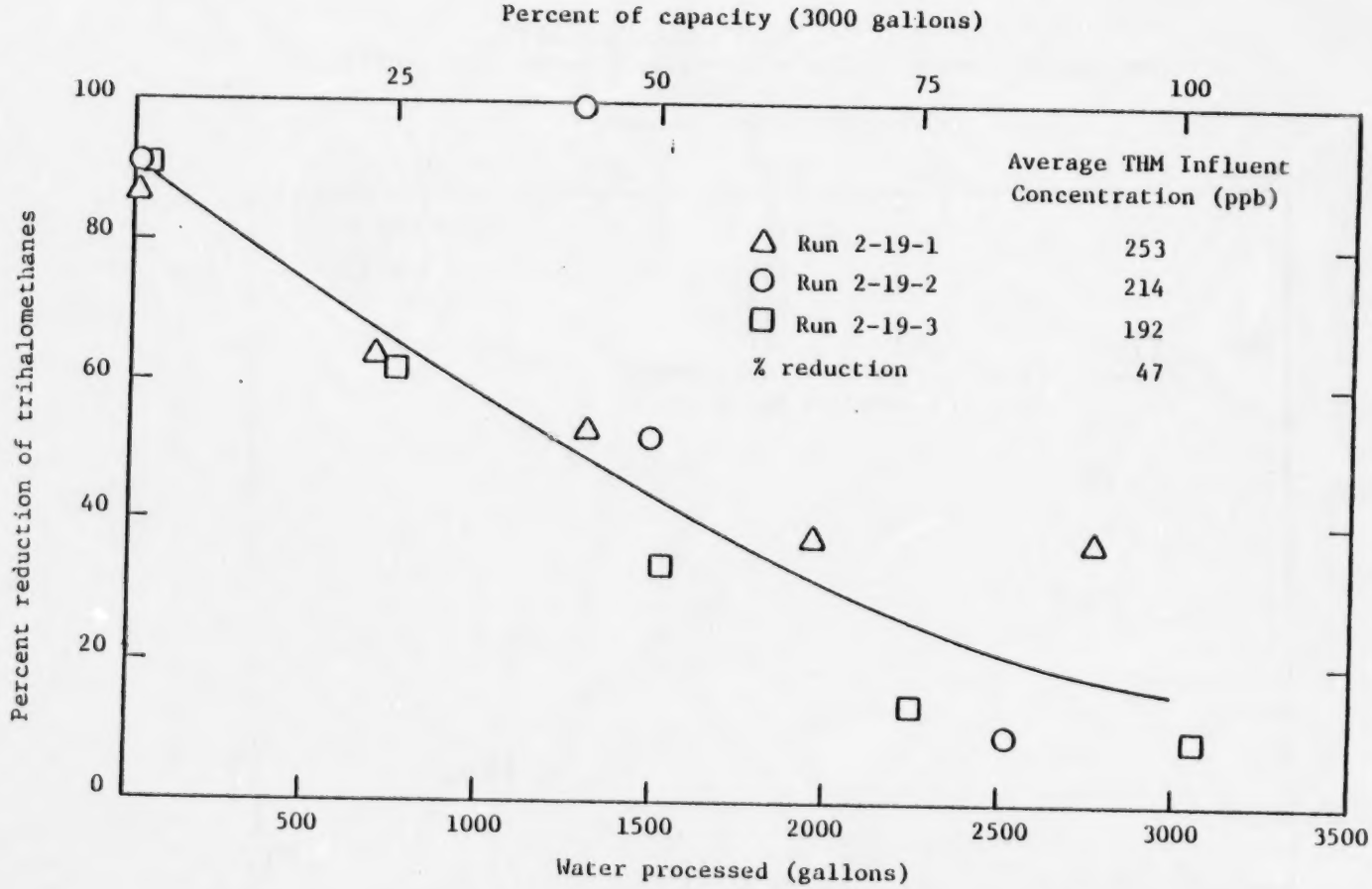

Figure S12. Summary performance of the Mariner Renaturalizer unit for THM removal.

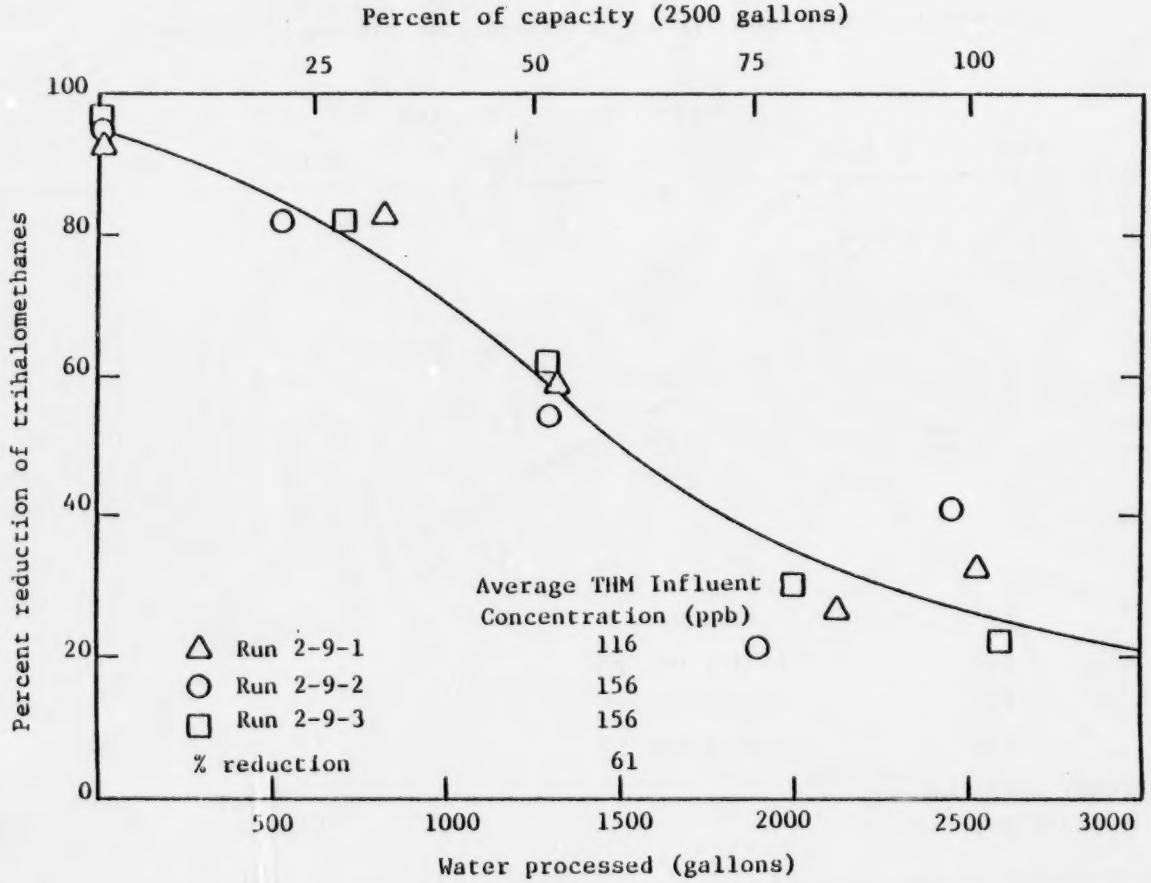

Figure S13. Summary performance of the Polarisdynamic unit for THM removal.

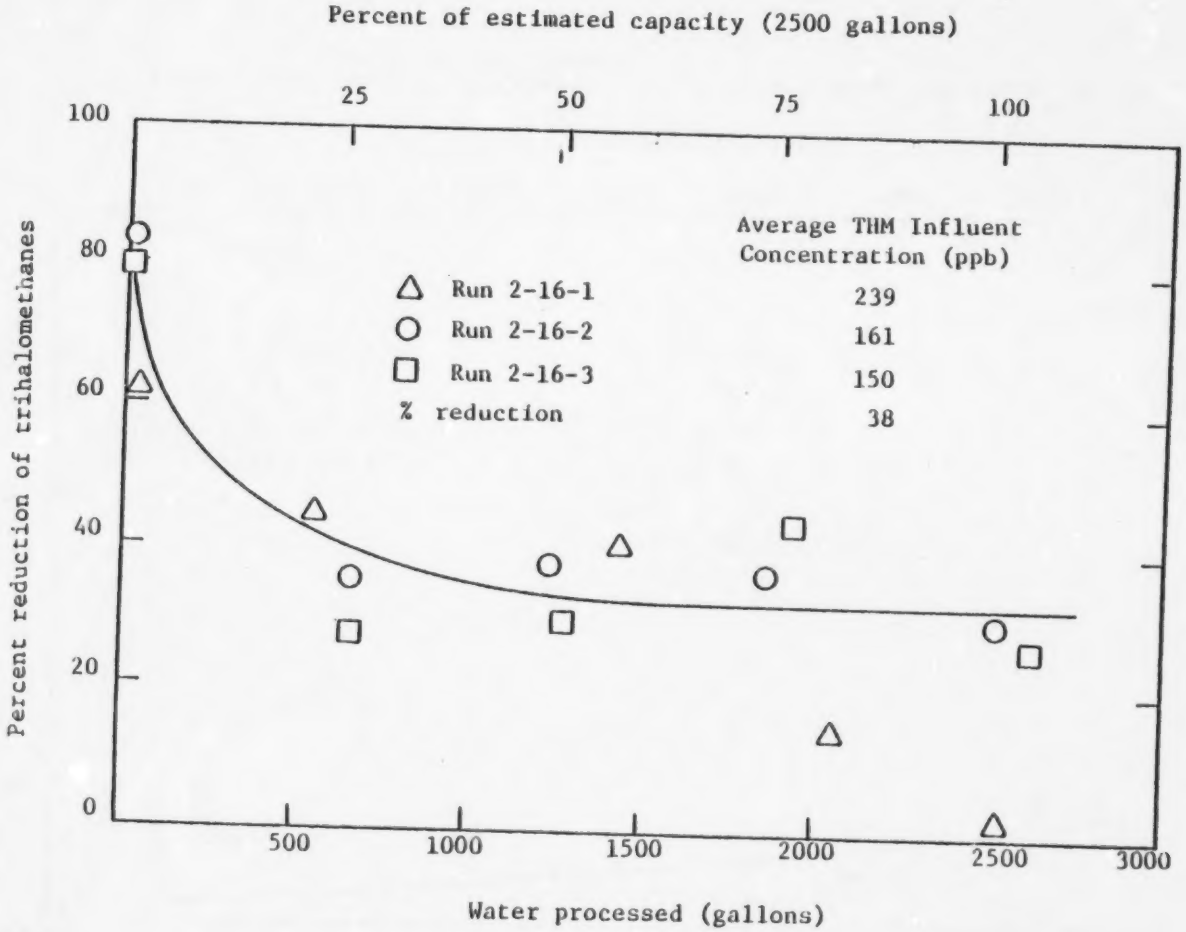

Figure S14. Summary performance of the Purogen Water Detoxifier unit for THM removal.

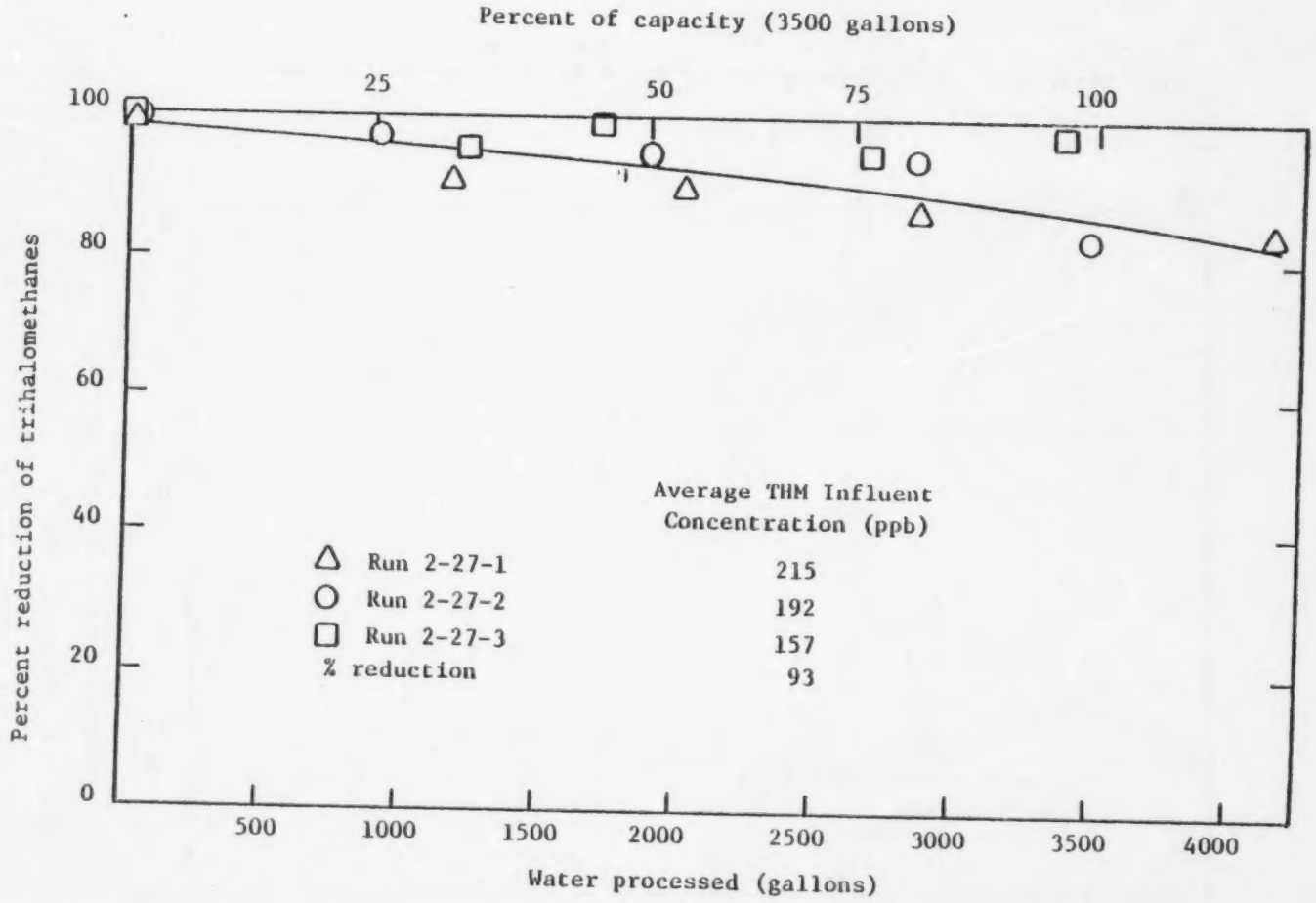

Figure S15. Summary performance of the Rohm & Haas, Ambersorb® XE-340 unit for THM removal.

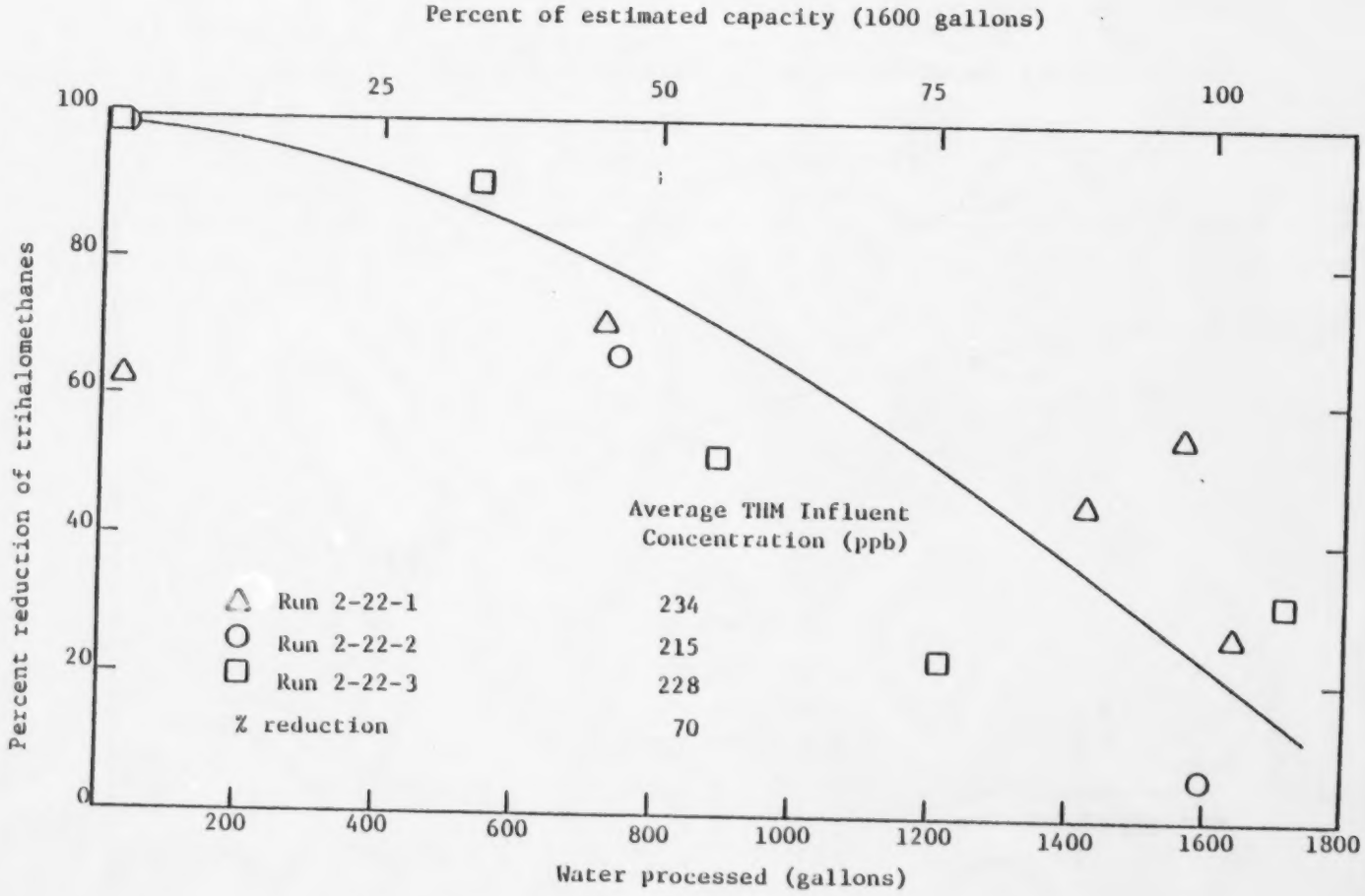

Figure S16. Summary performance of the Seagull 1V unit for THM removal.

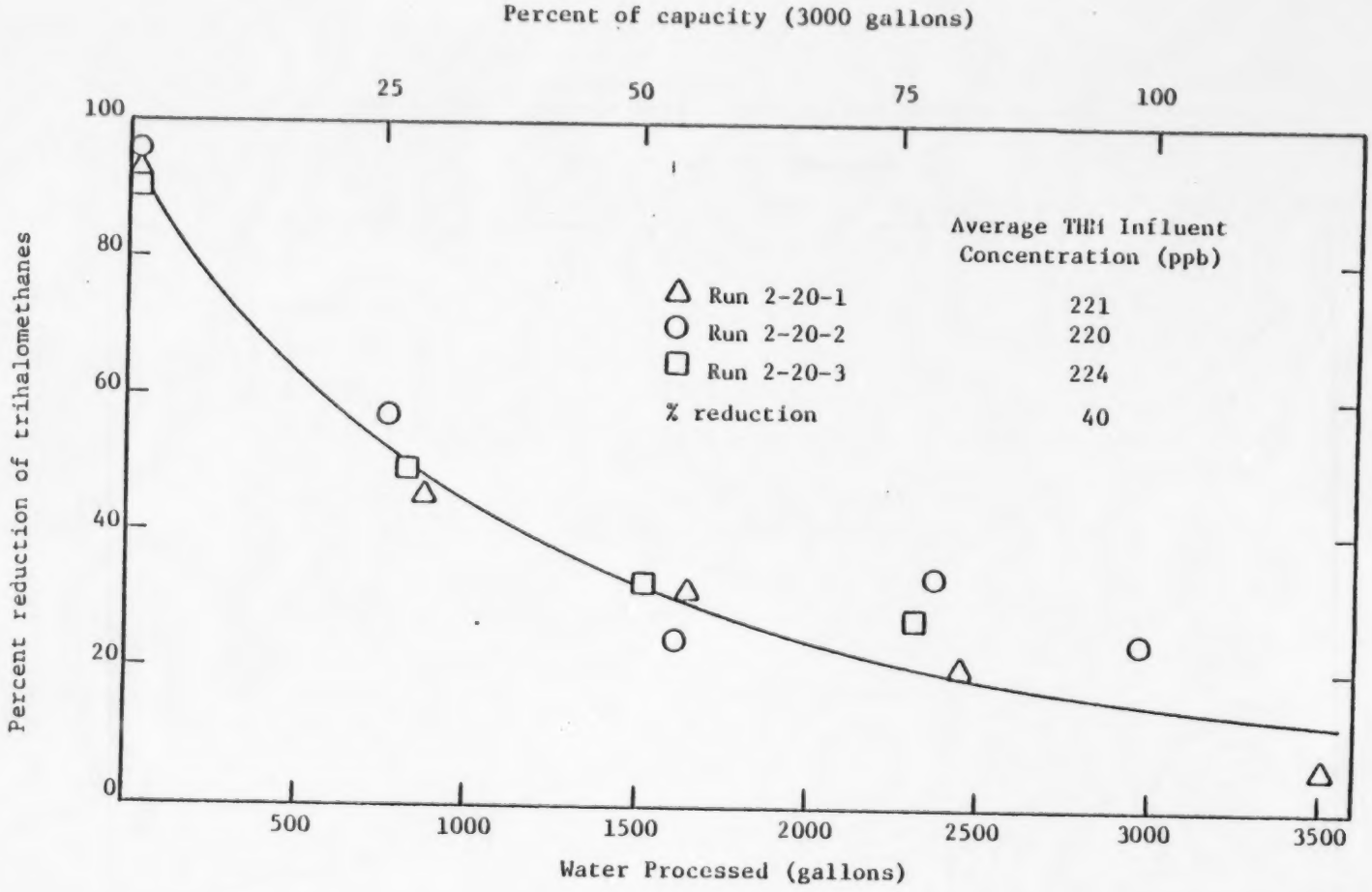

Figure S17. Summary performance of the Ultrapure Bacteriostatic unit for THM removal.

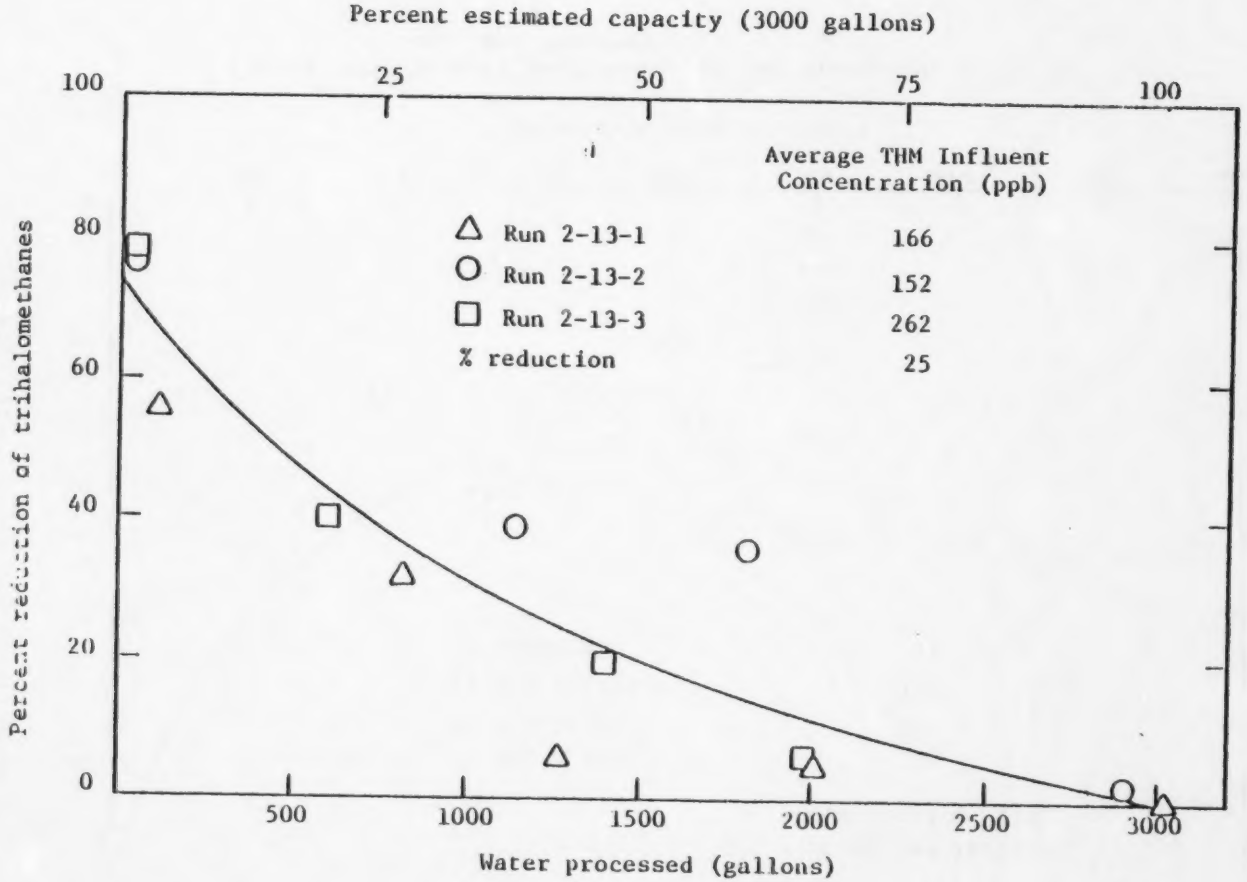

Figure S18. Summary performance of the Waterco, Model AS-5 unit for THM removal.

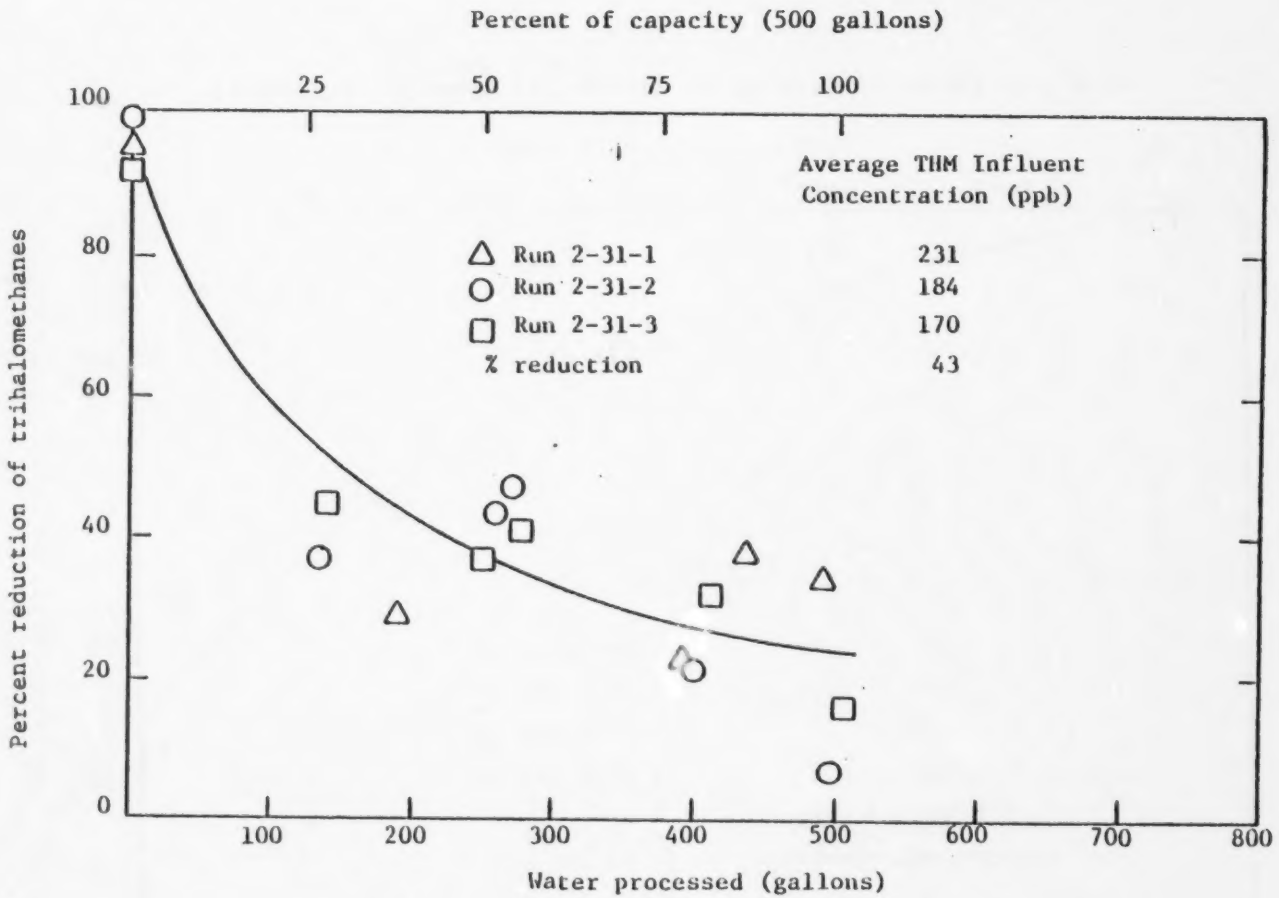

Figure S19. Summary performance of the Aquaguard, Model AGT-31 unit for THM removal.

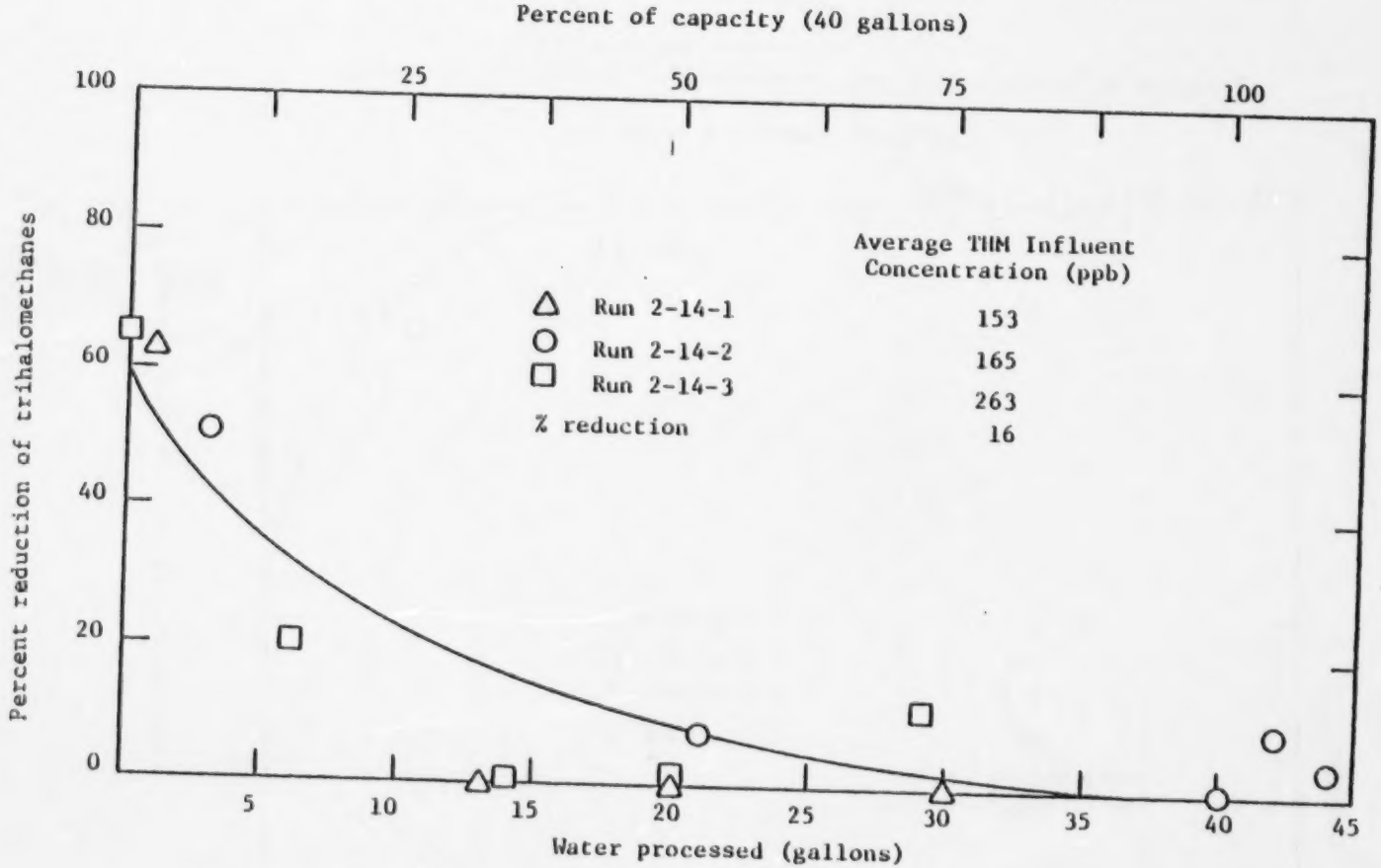

Figure S20. Summary performance of the Concept Bacteriostatic unit for THM removal.

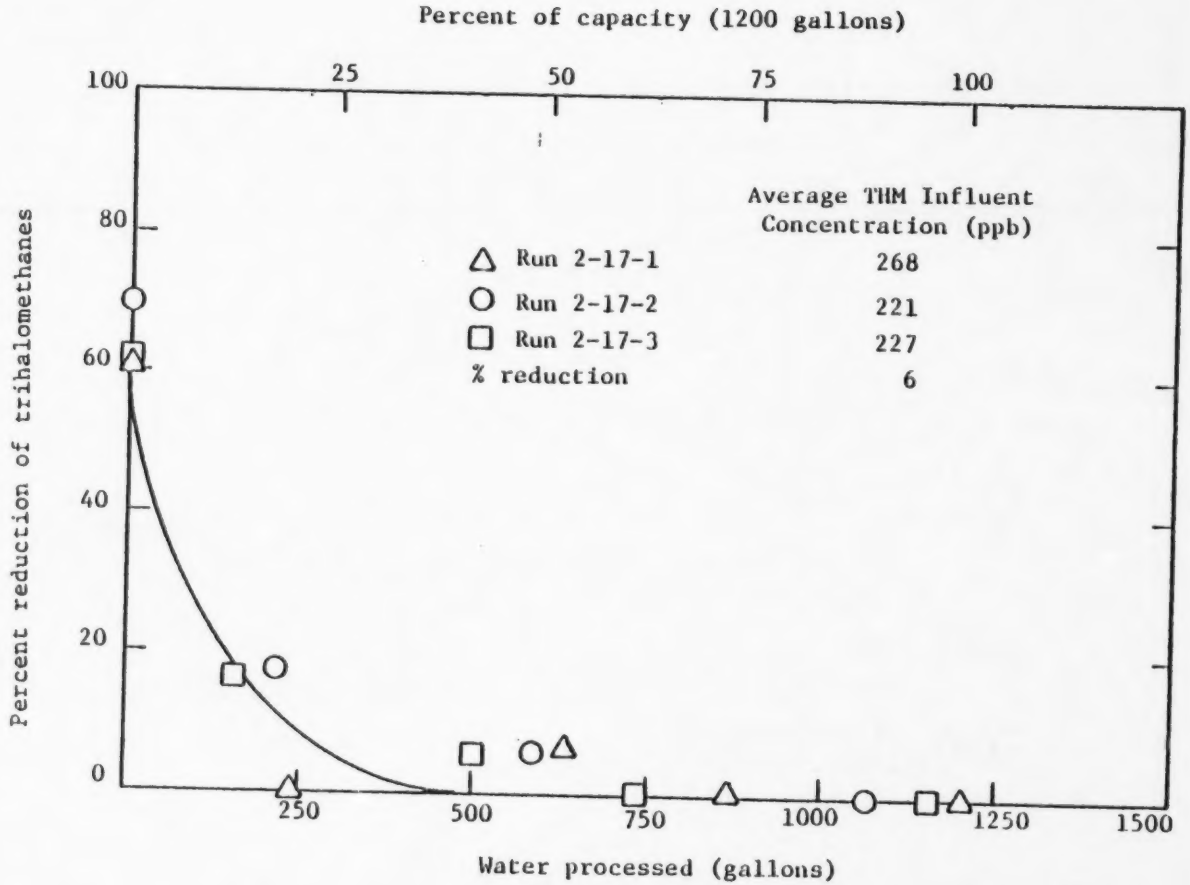

Figure S21. Summary performance of the Filter Fresh, Model FF-1 unit for THM removal.

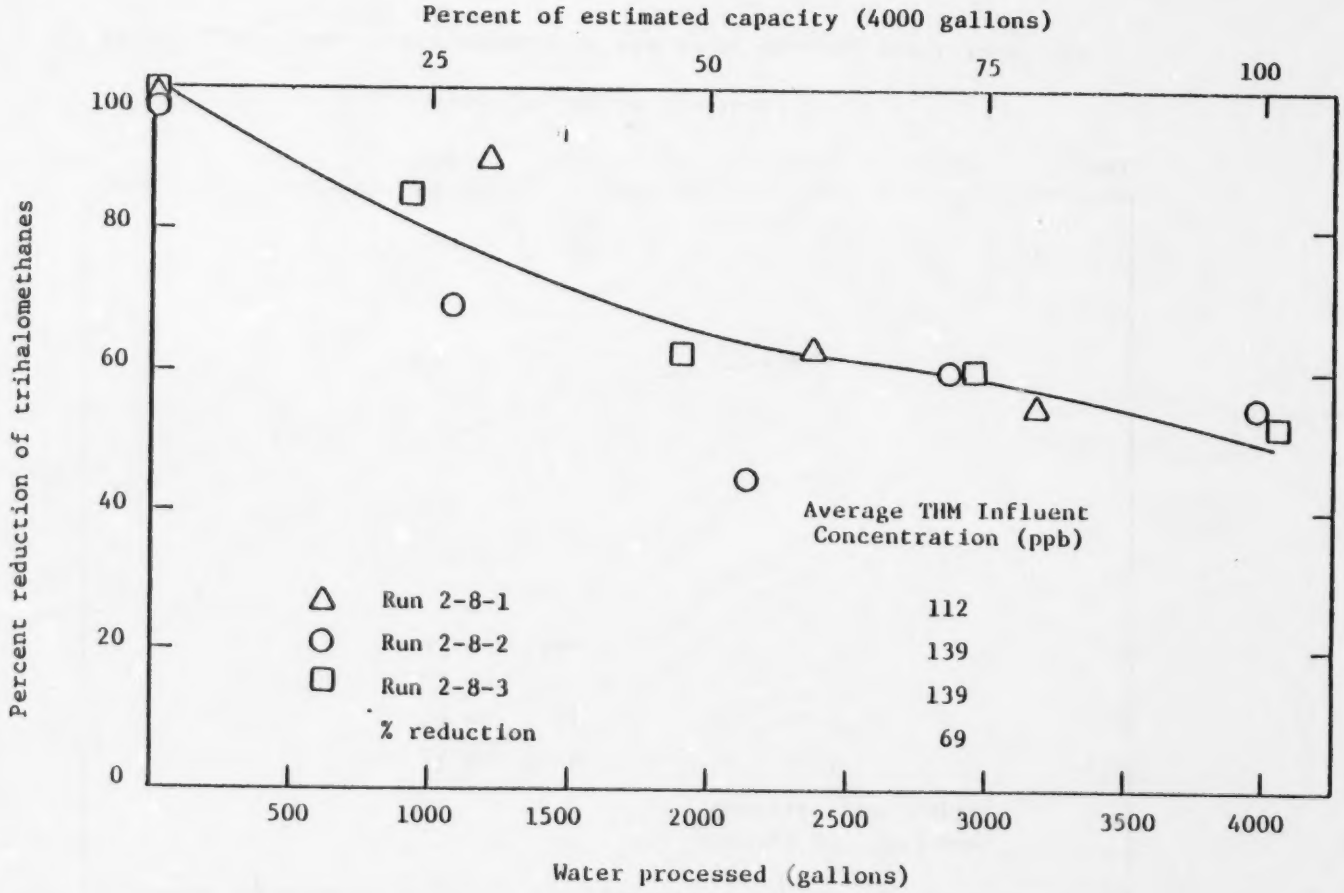

Figure S22. Summary performance of the Hurley Town and Country unit for THM removal.

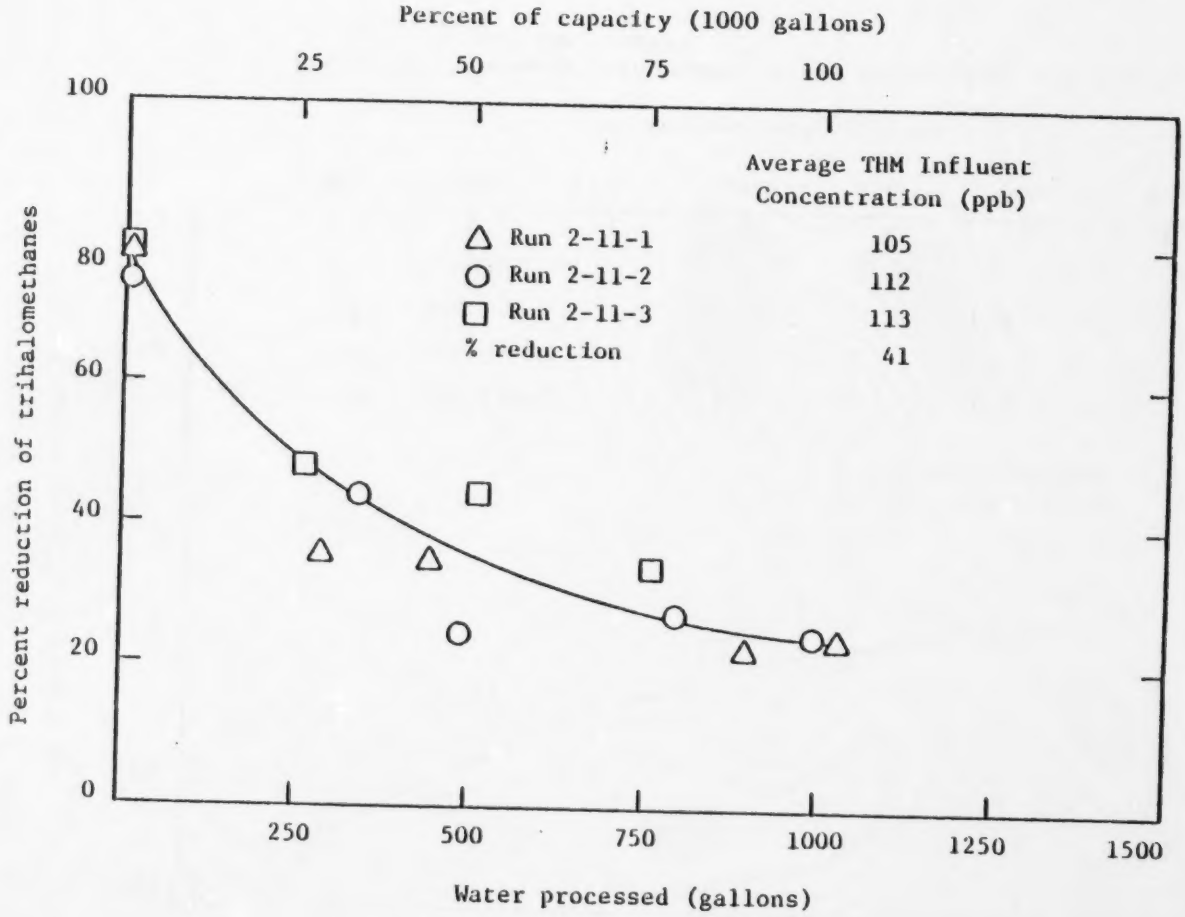

Figure S23. Summary performance of the Water Washer, Model 1000 unit for THM removal.

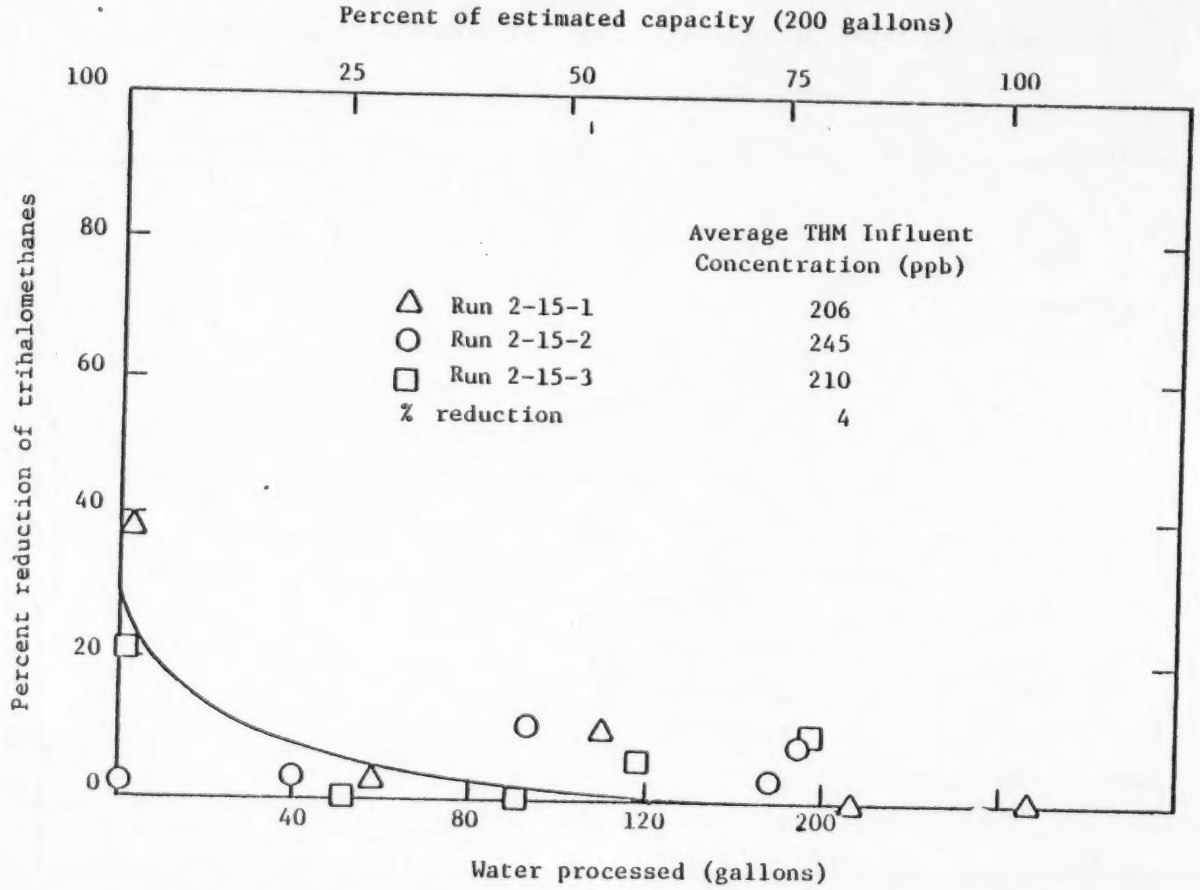

Figure S24. Summary performance of the Wunderbar Cleaner-Filter unit for THM removal.

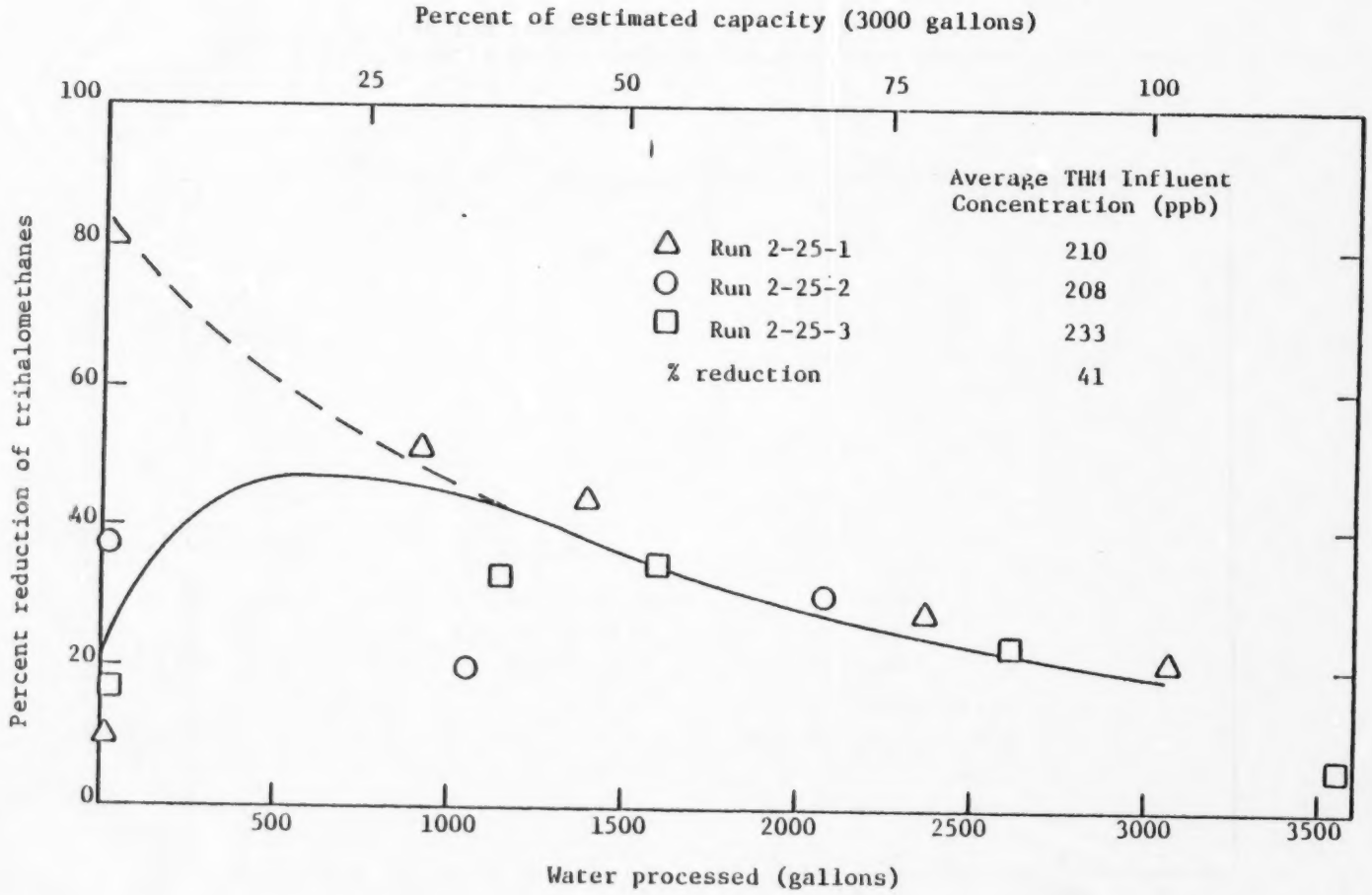

Figure S25. Summary performance of the AMF Cuno, Model 1M unit for THM removal.

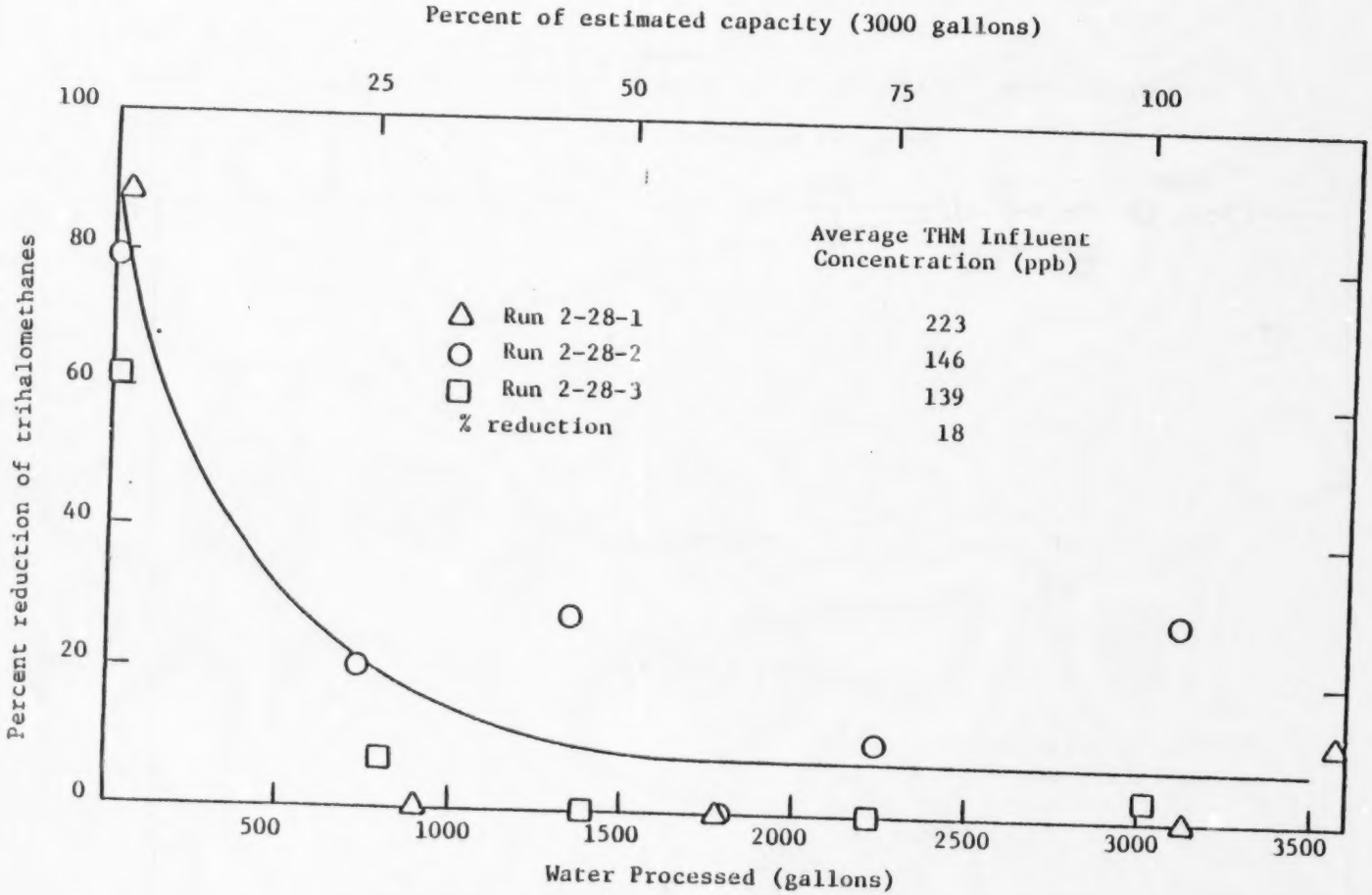

Figure S26. Summary performance of the Filterite, Model IPC unit for THM removal.

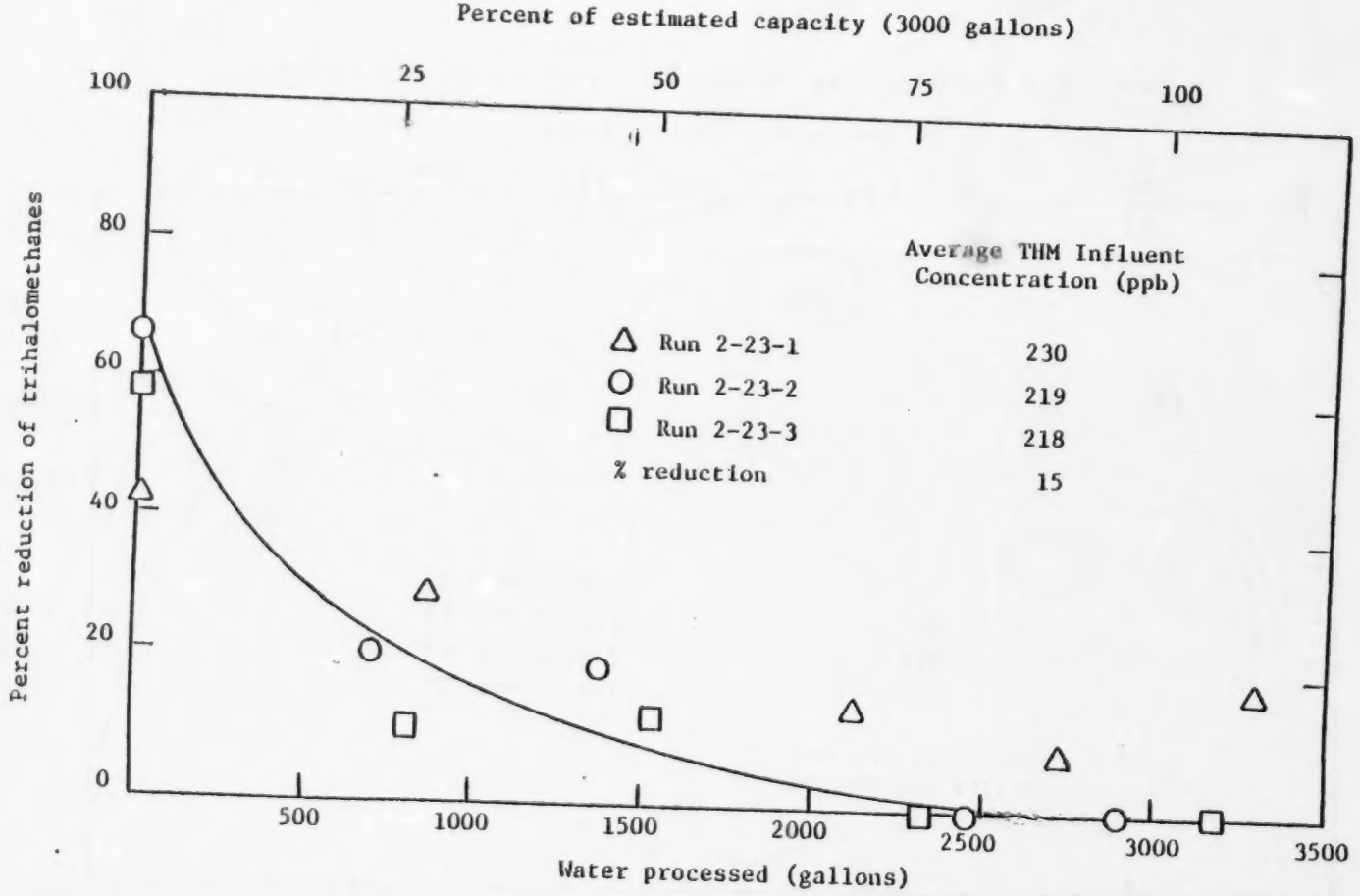

Figure S27. Summary performance of the Fulflo, Model WC-10 unit for THM removal.

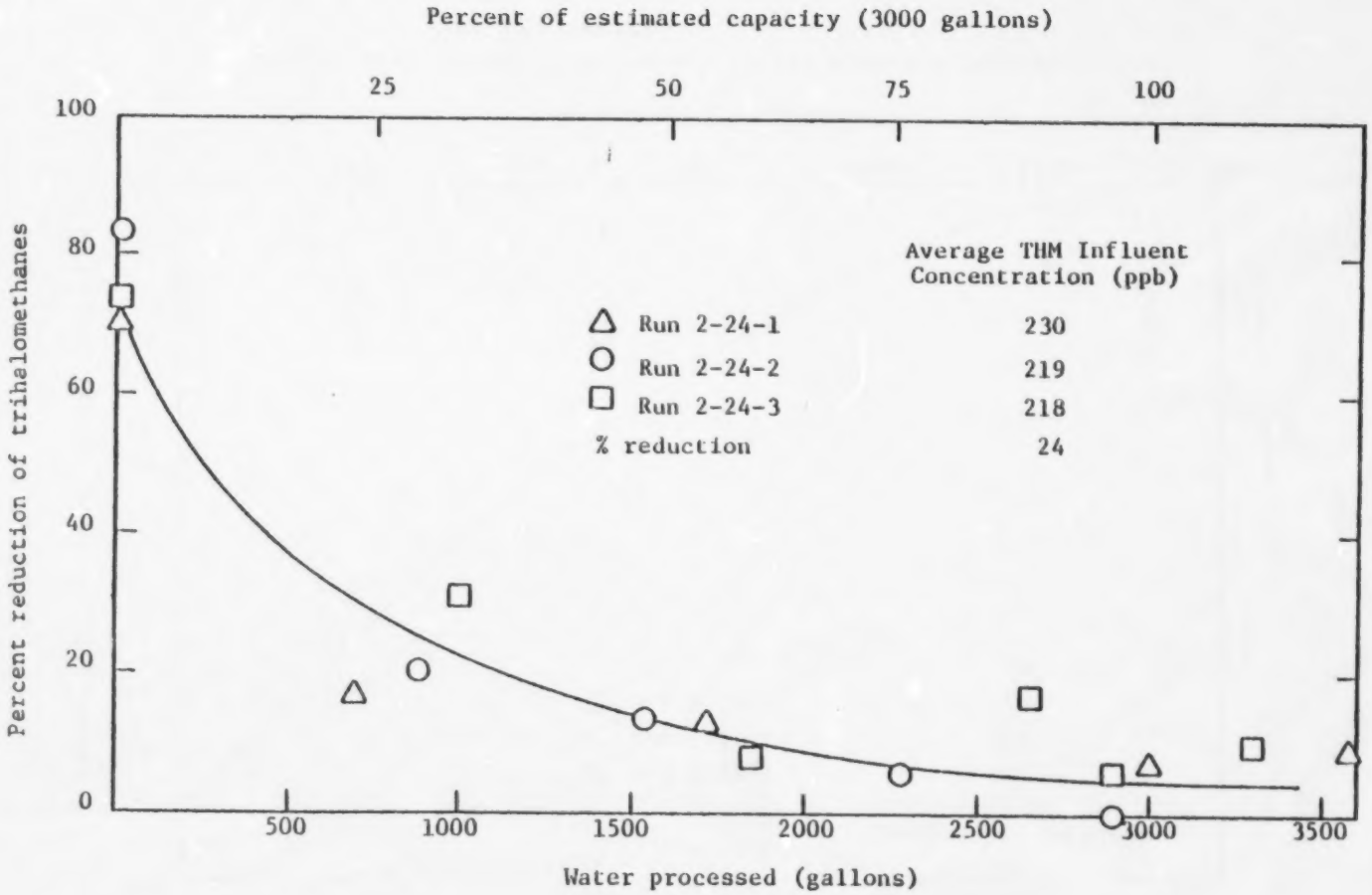

Figure S28. Summary performance of the Keystone, Model 3121 unit for THM removal.

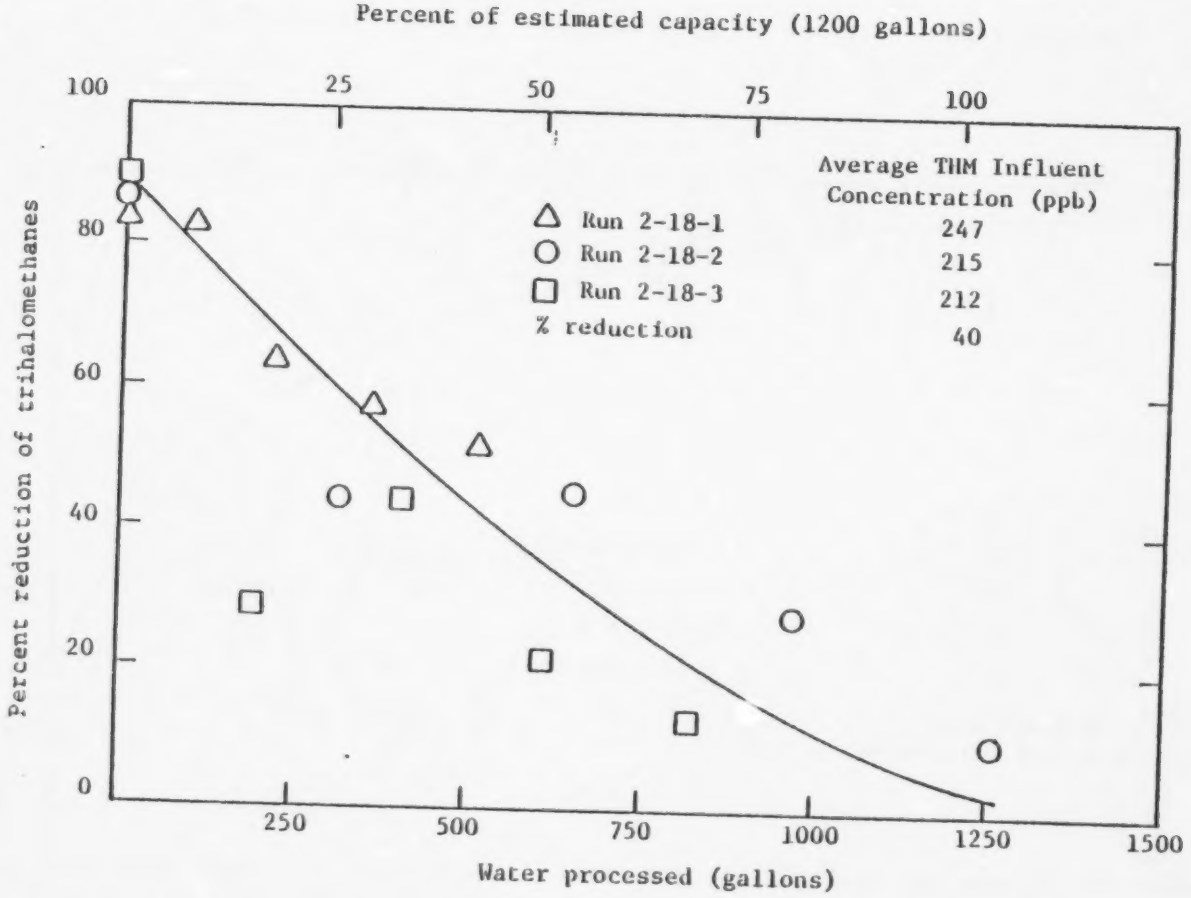

Figure S29. Summary performance of the Filbrook Pour-Thru unit for THM removal.

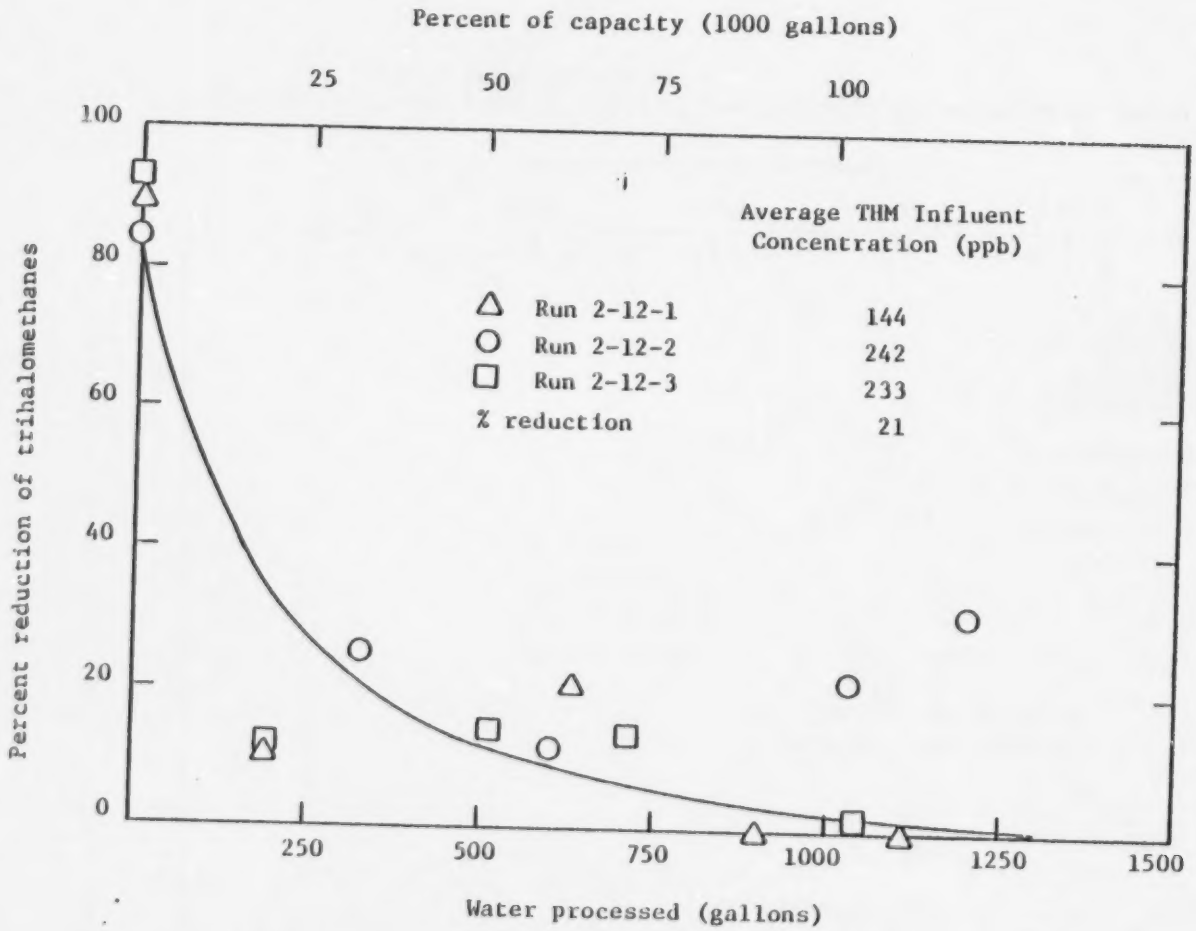

Figure S30. Summary performance of the Puriton Bacteriostatic unit for THM removal.

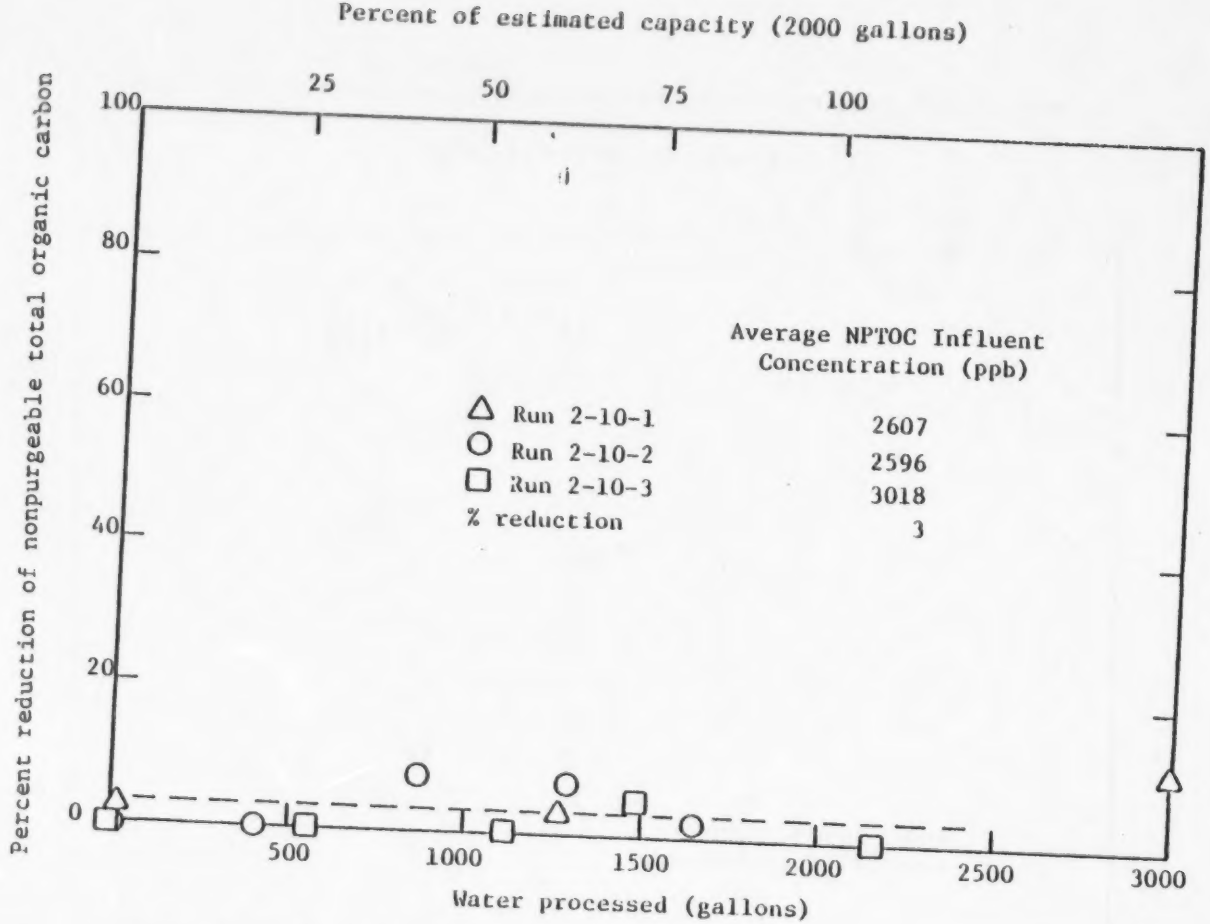

Figure S31. Summary performance of the Argenion Bacteriostatic, Model 1 unit for NPTOC removal.

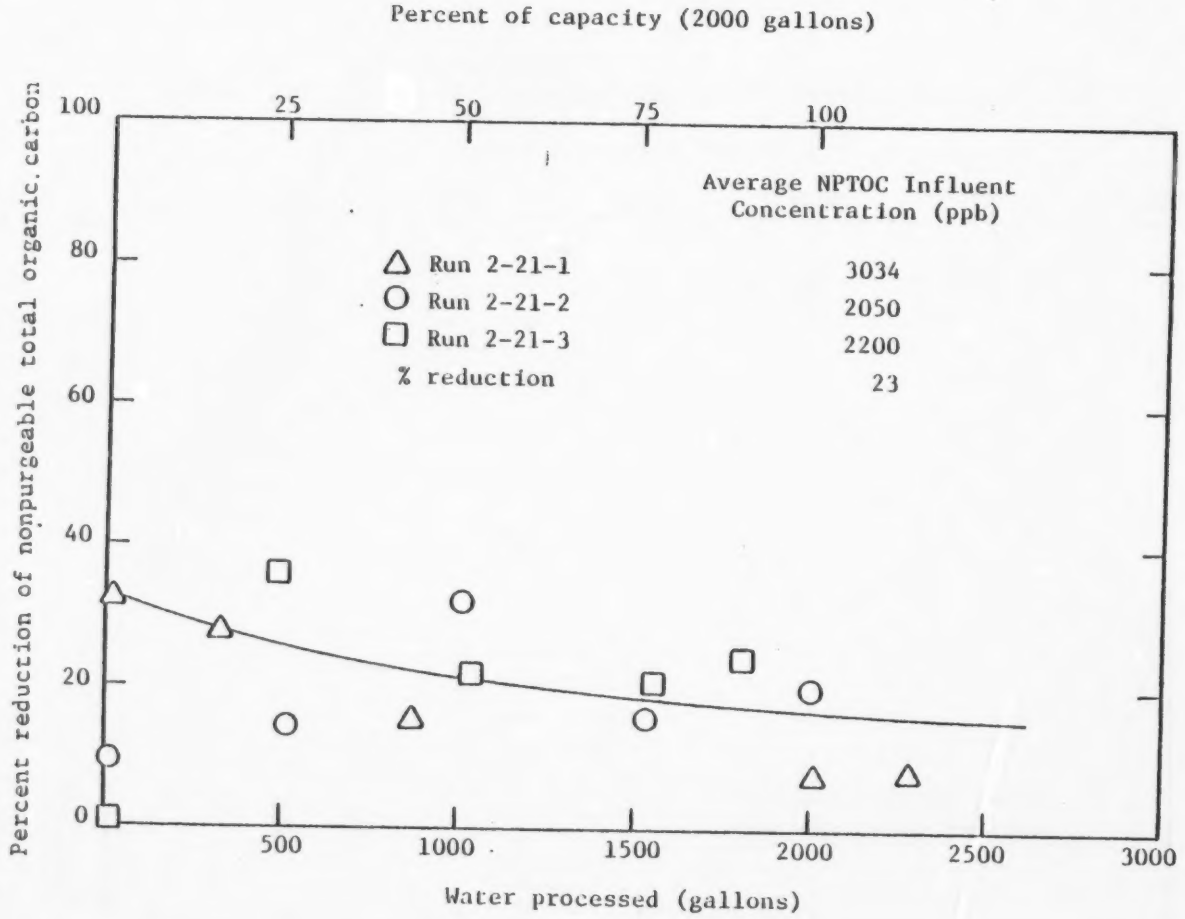

Figure S32. Summary performance of the Aquacell Bacteriostatic unit for NPTOC removal.

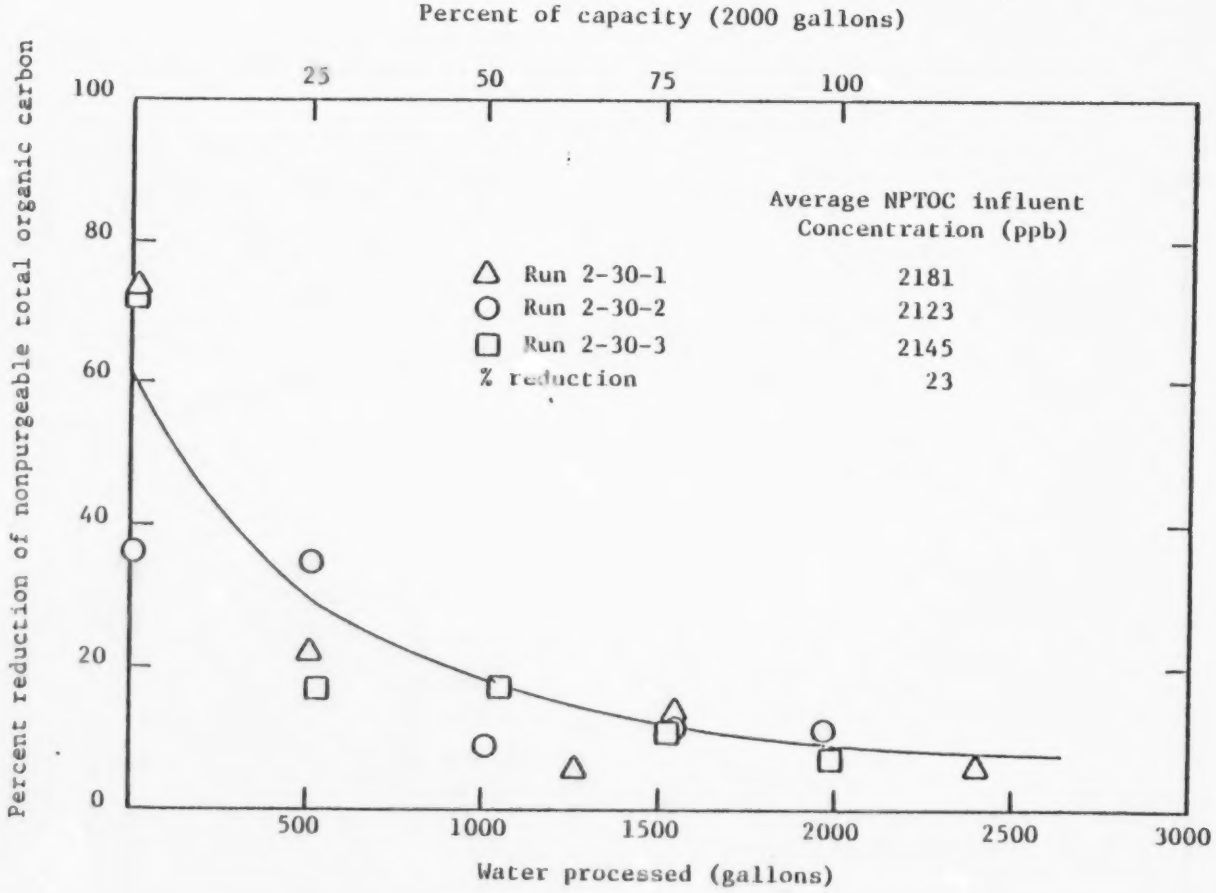

Figure S33. Summary performance of the Aqualux, Model CB-2 unit for NPTOC removal.

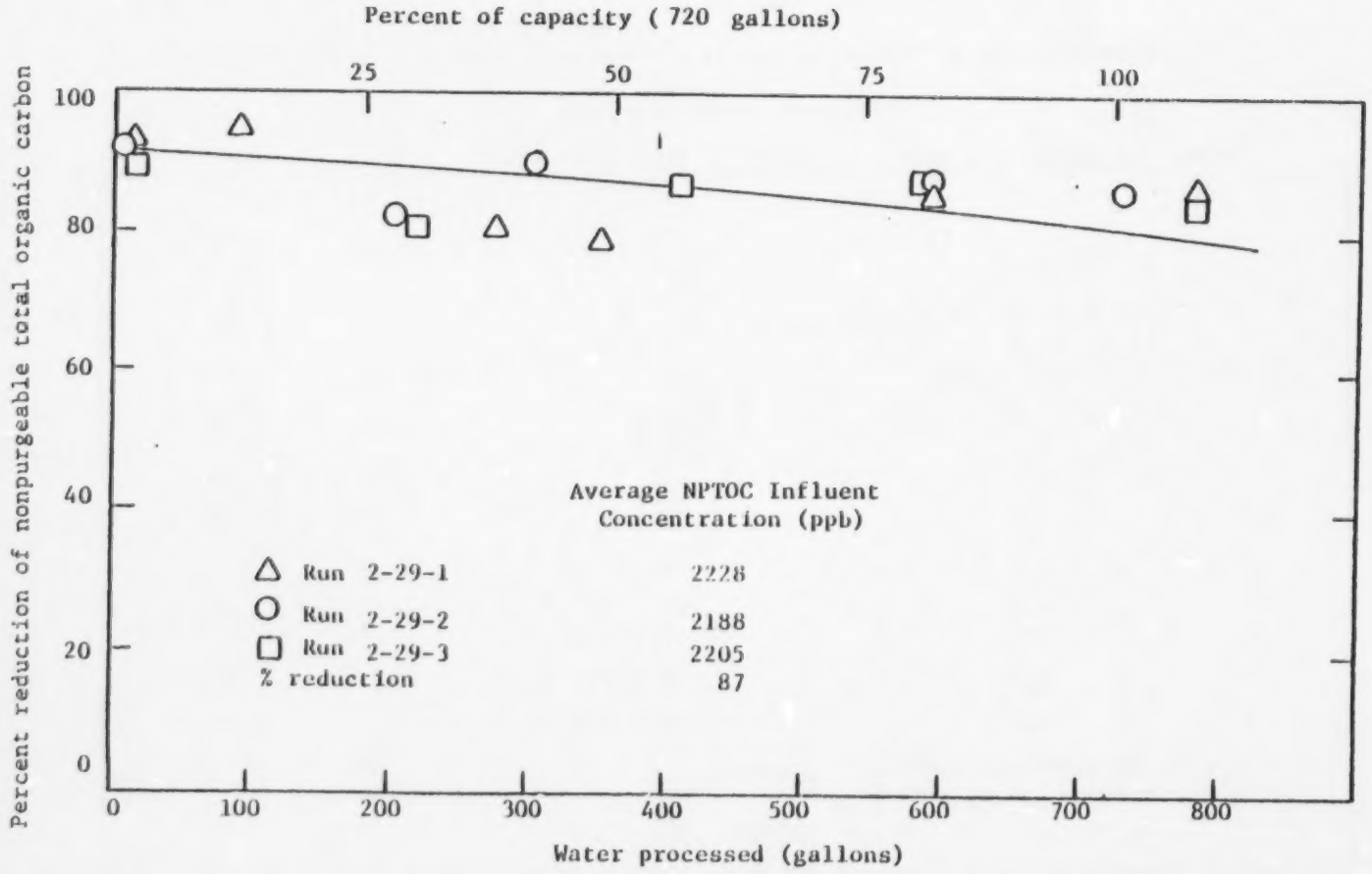

Figure S34. Summary performance of the Continental, Model 350 unit for NPTOC removal.

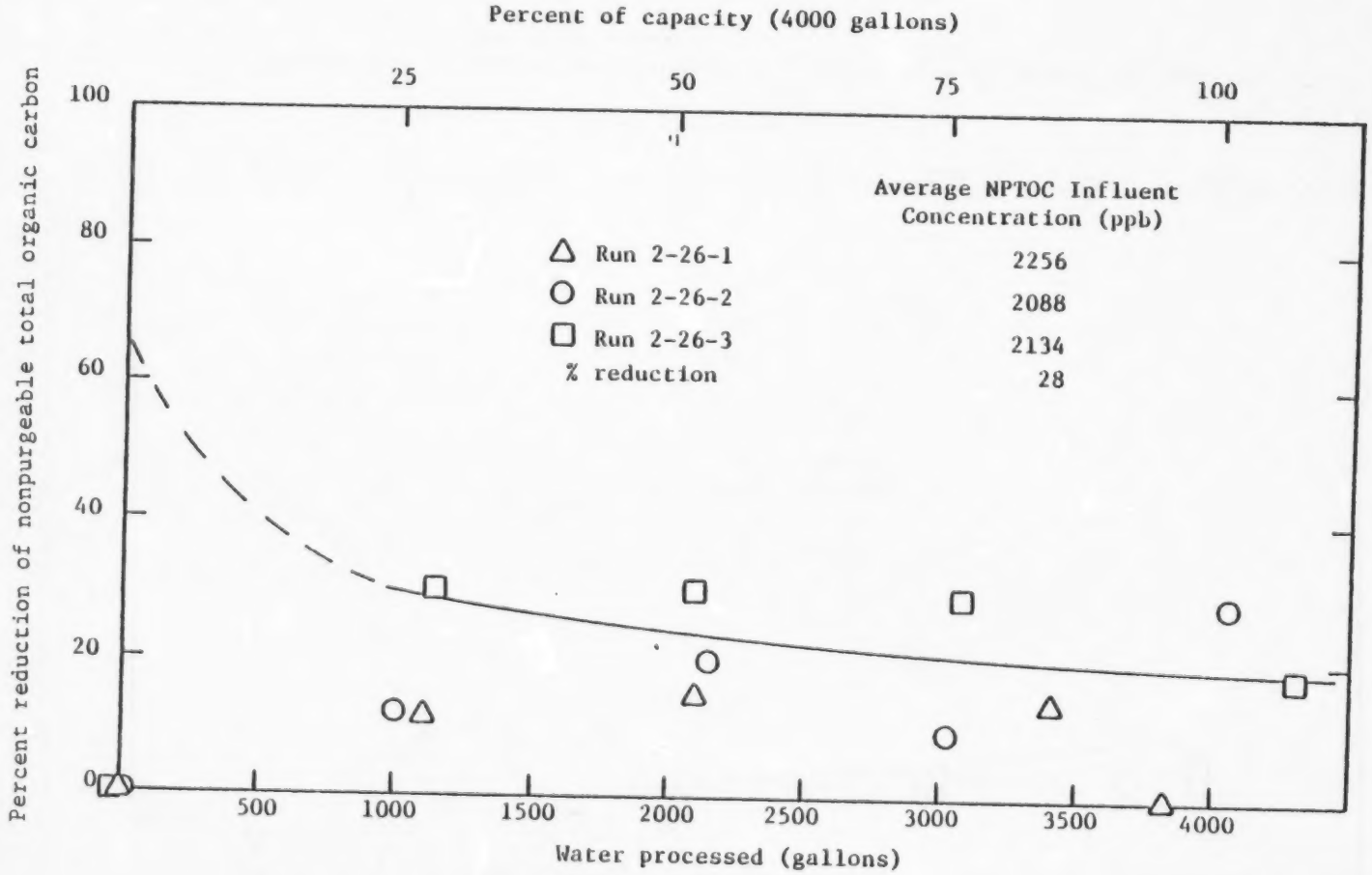

Figure S35. Summary performance of the Culligan, Model SG-2 unit for NPTOC removal

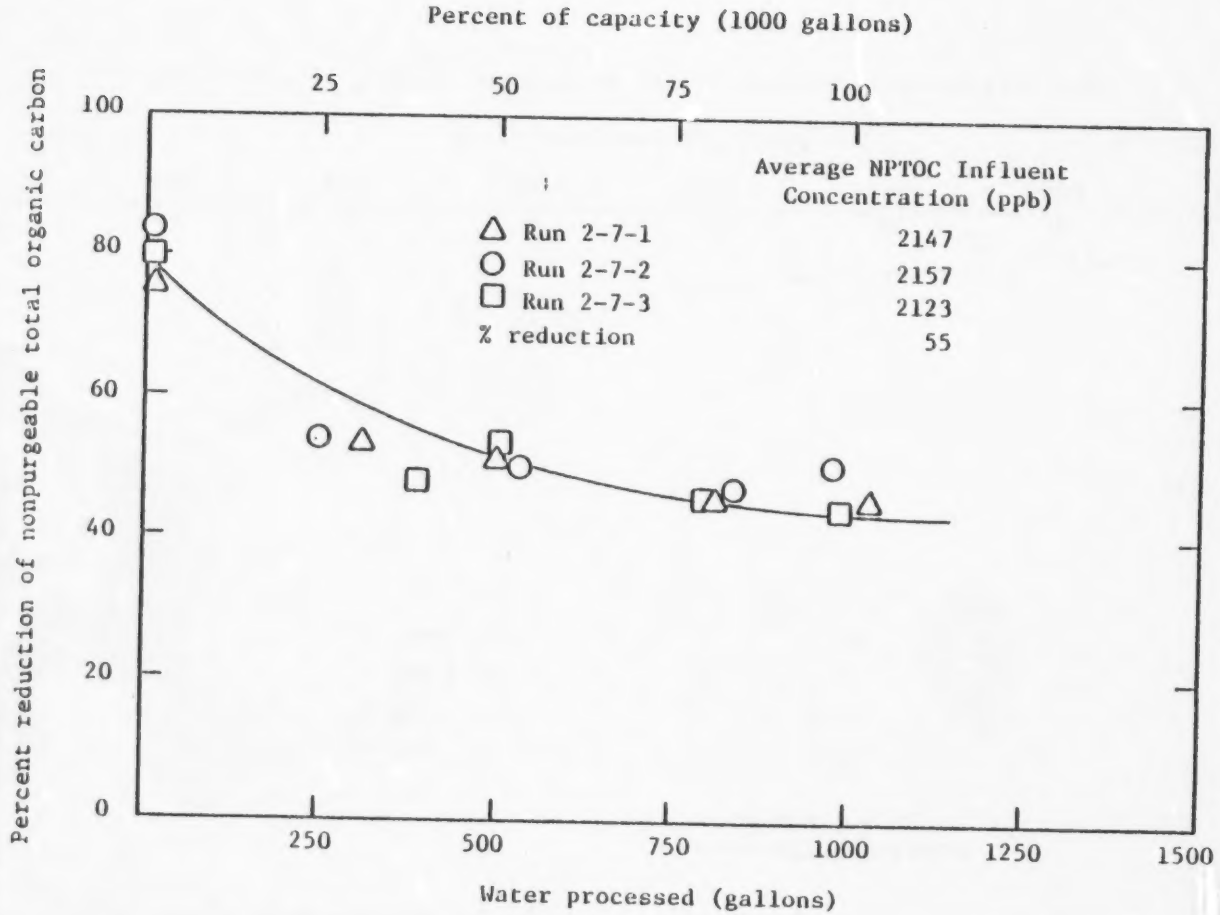

Figure S36. Summary performance of the Everpure, Model QC4-THM unit for NPTOC removal.

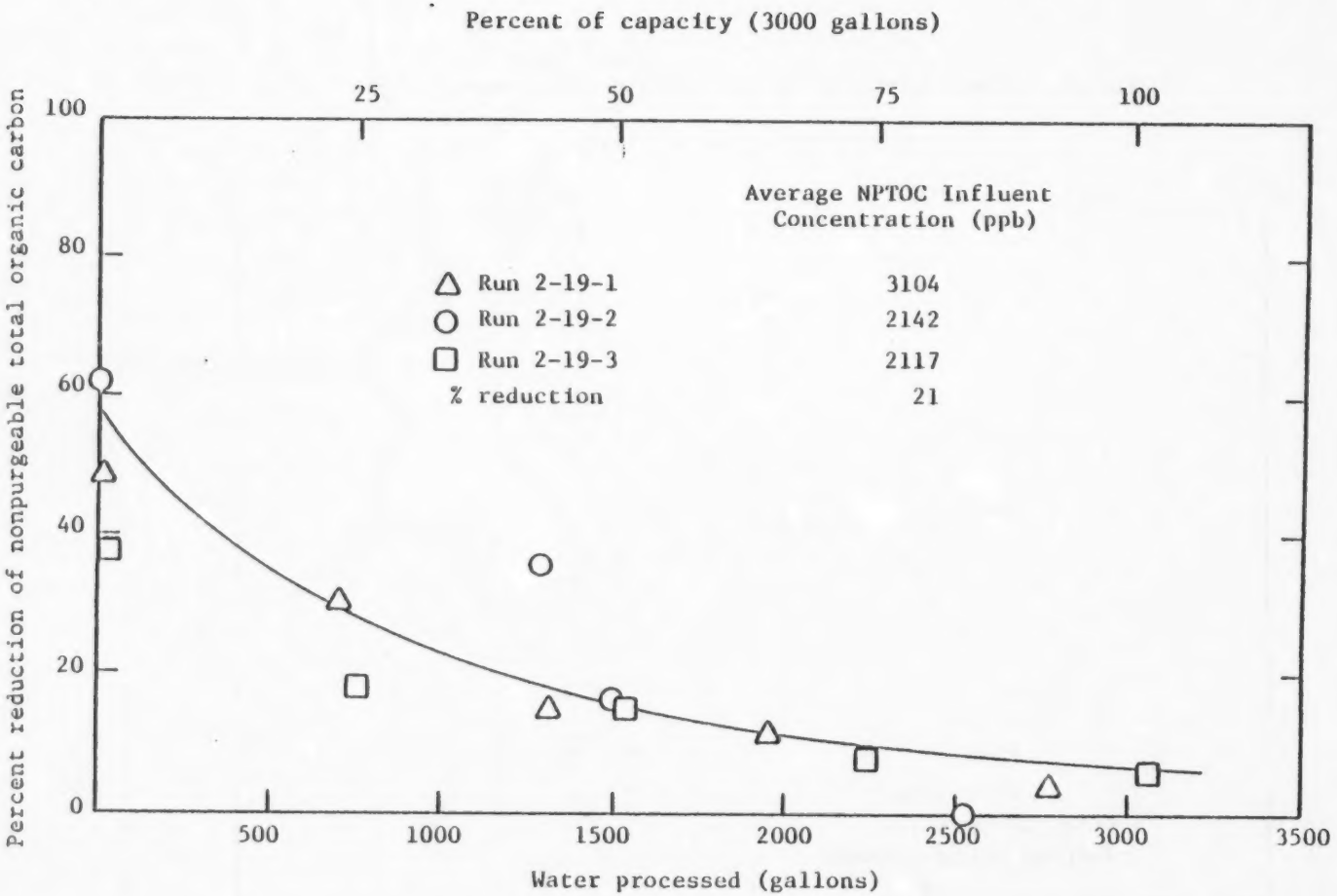

Figure S37. Summary performance of the Mariner Renaturalizer unit for NPTOC removal.

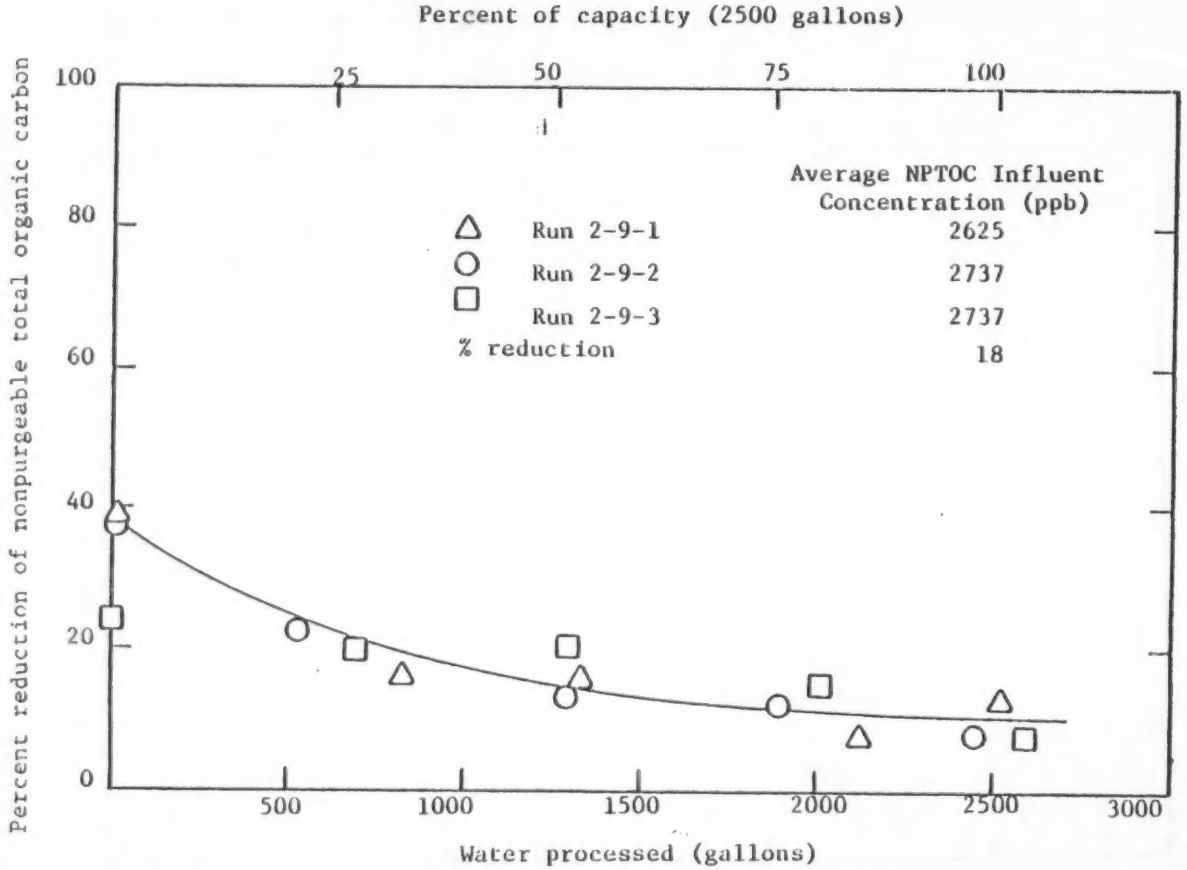

Figure S38. Summary performance of the Polarisdynamic unit for NPTOC removal.

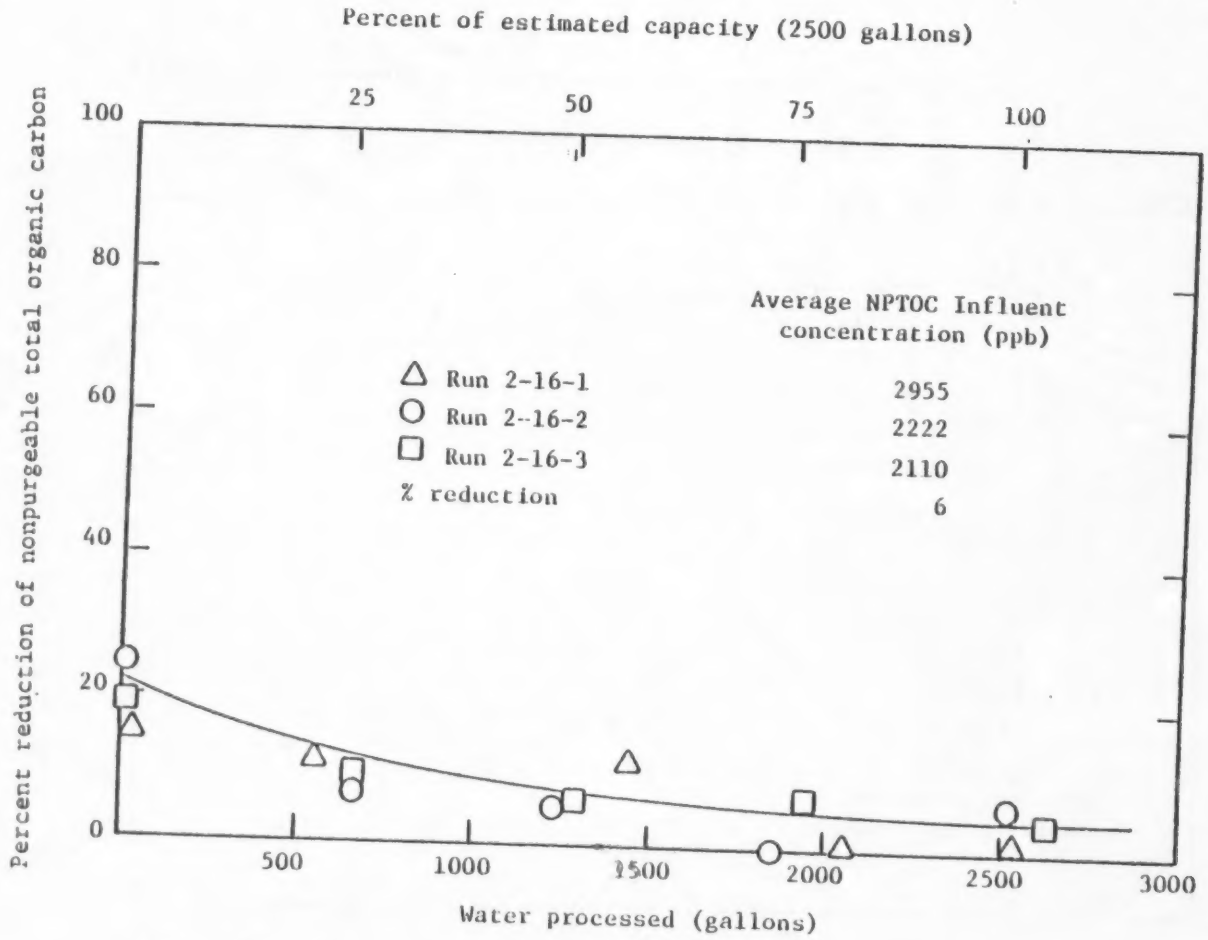

Figure S39. Summary performance of the Purogen Water Detoxifier unit for NPTOC removal.

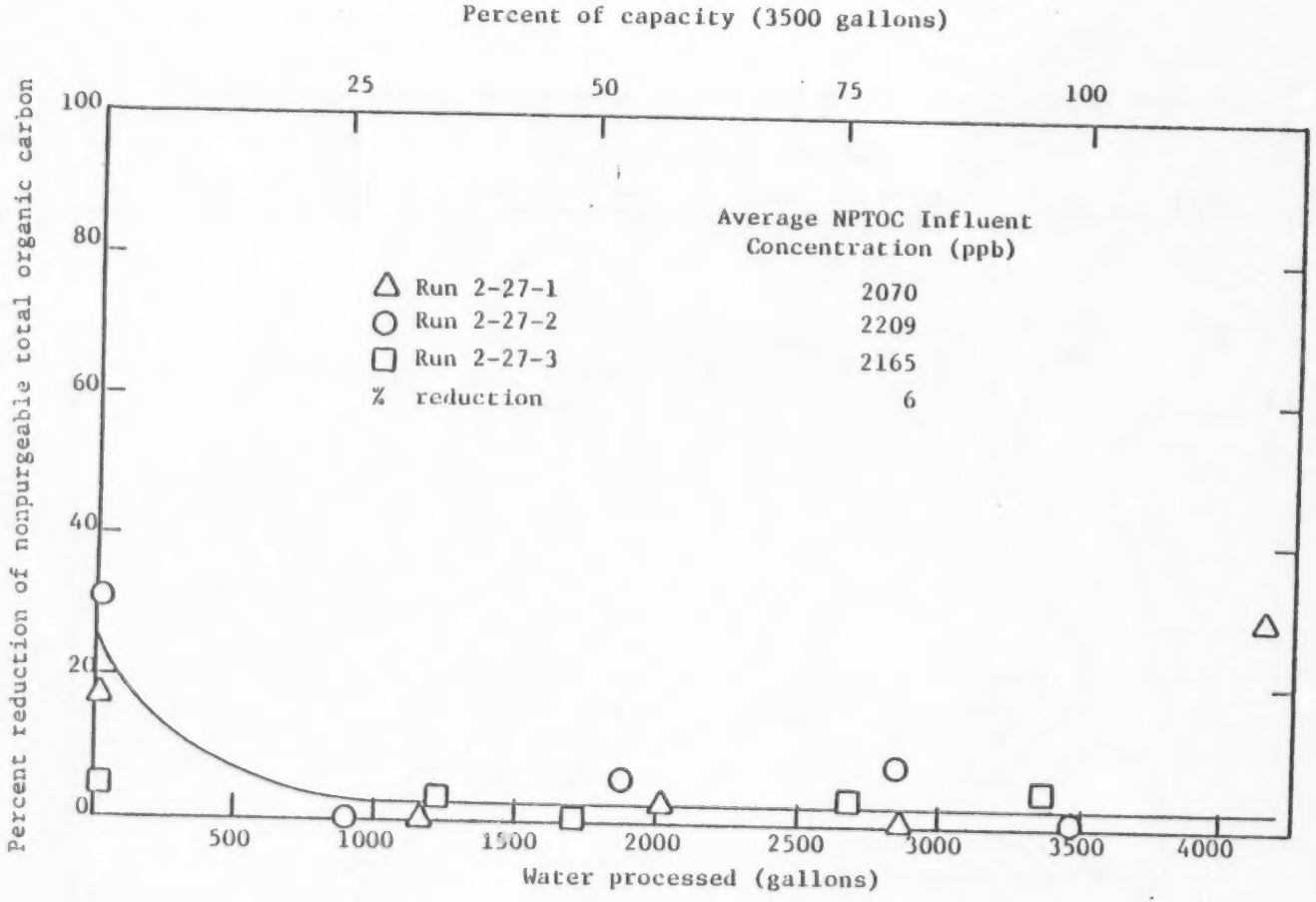

Figure S40. Summary performance of the Rohm & Haas, Ambersorb XE-340 unit for NPTOC removal.

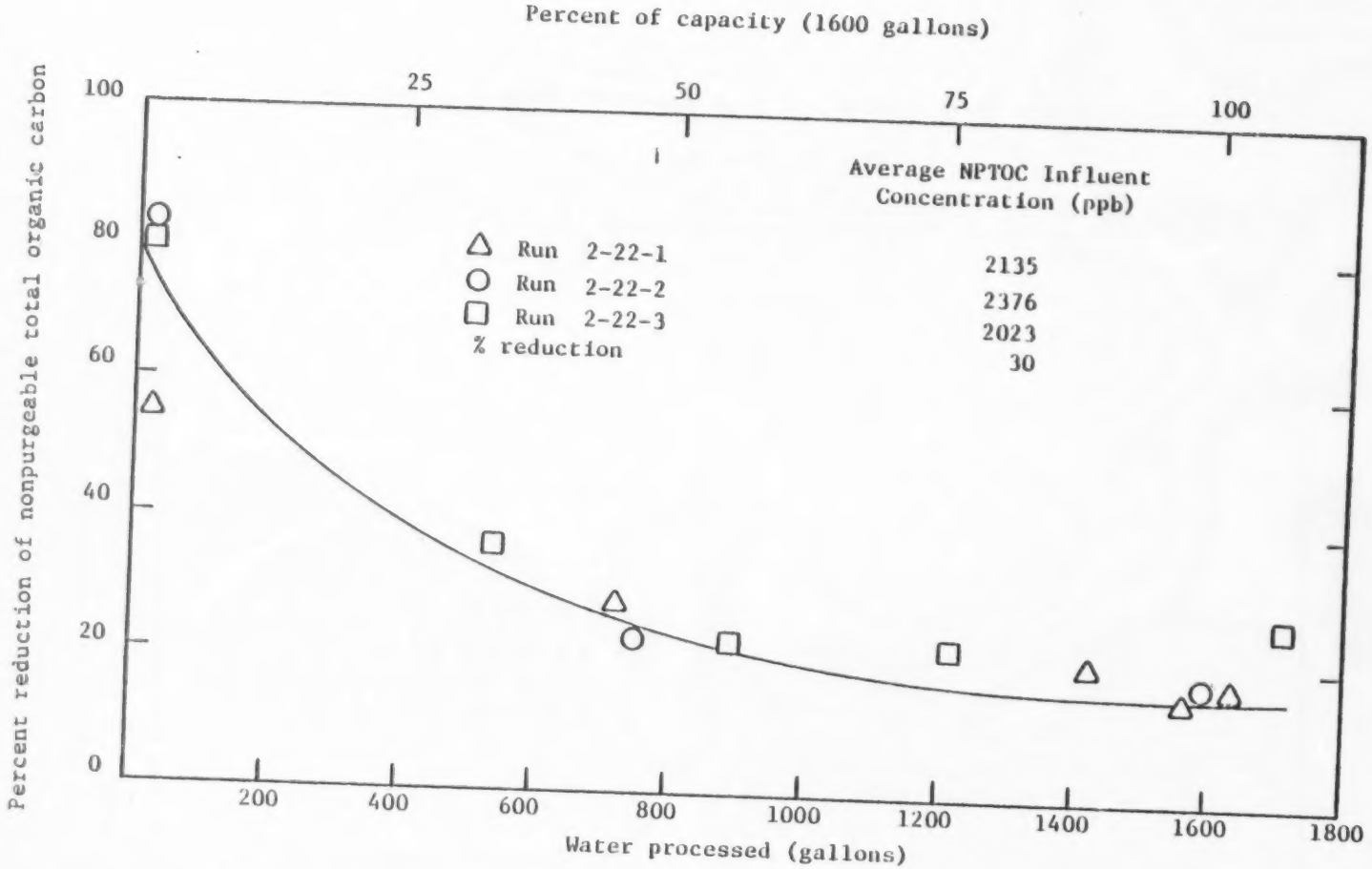

Figure S41. Summary performance of the Seagull lV unit for NPTOC removal.

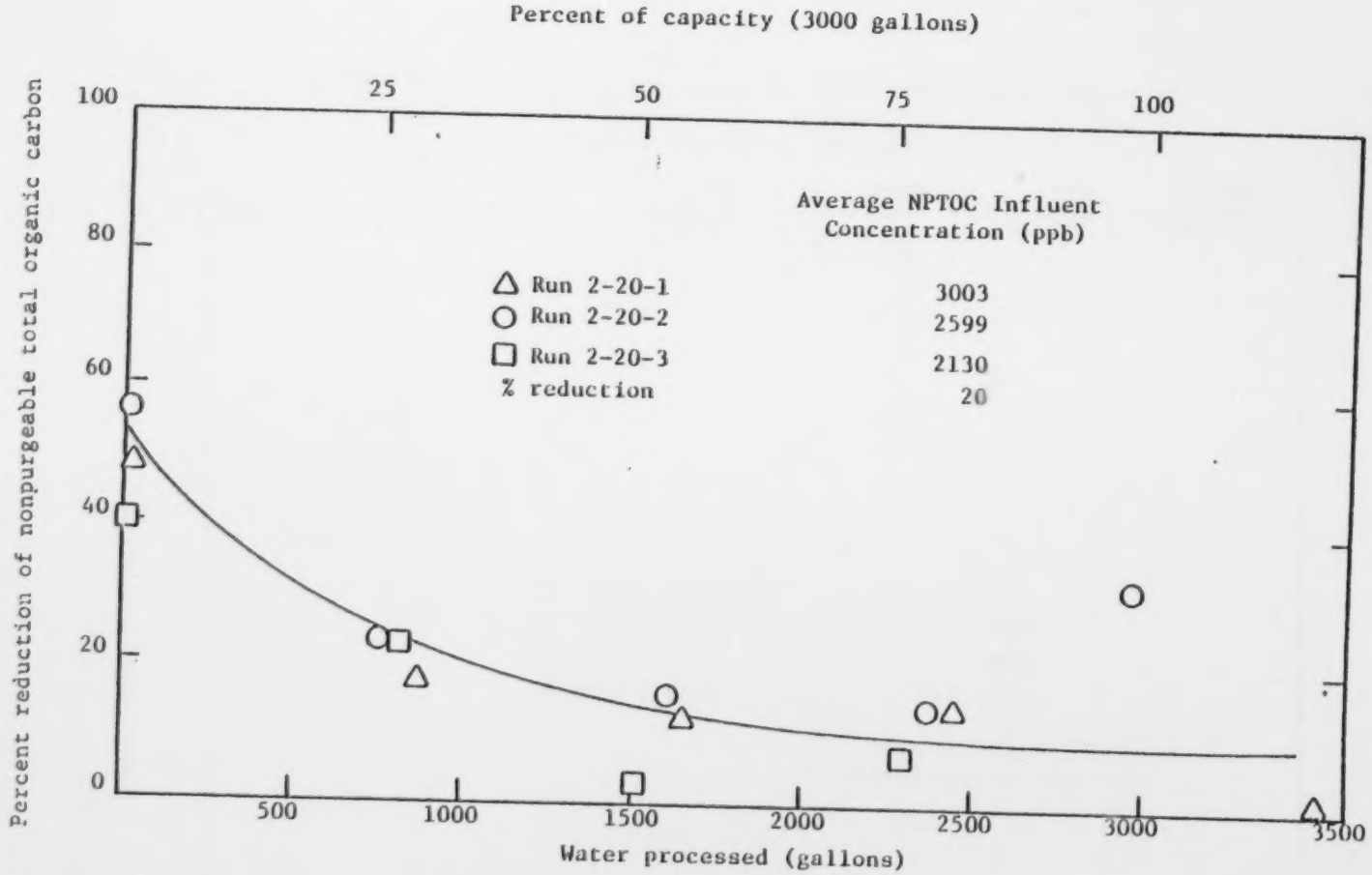

Figure S42. Summary performance of the Ultrapure Bacteriostatic unit for NPTOC removal.

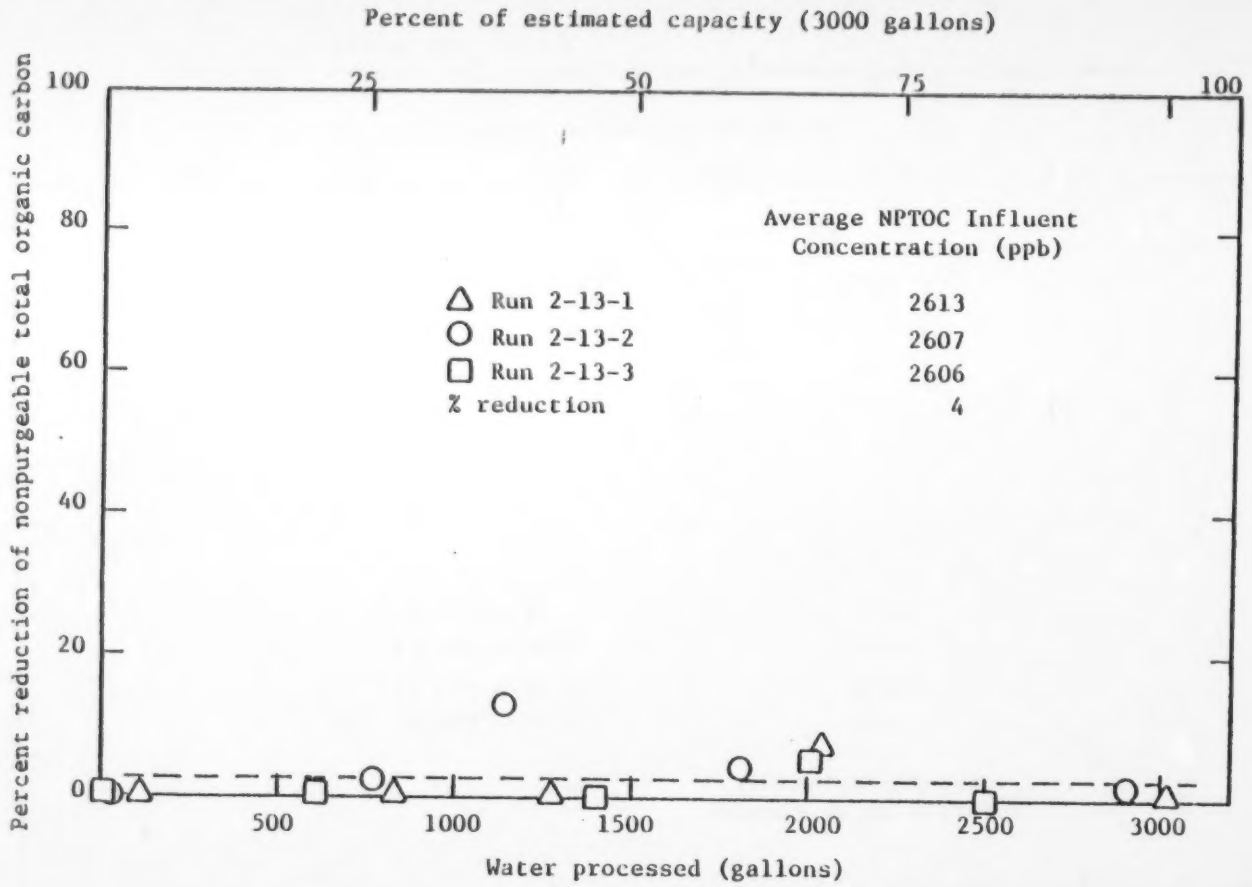

Figure S43.. Summary performance of the Waterco, Model AS-5 unit for NPTOC removal.

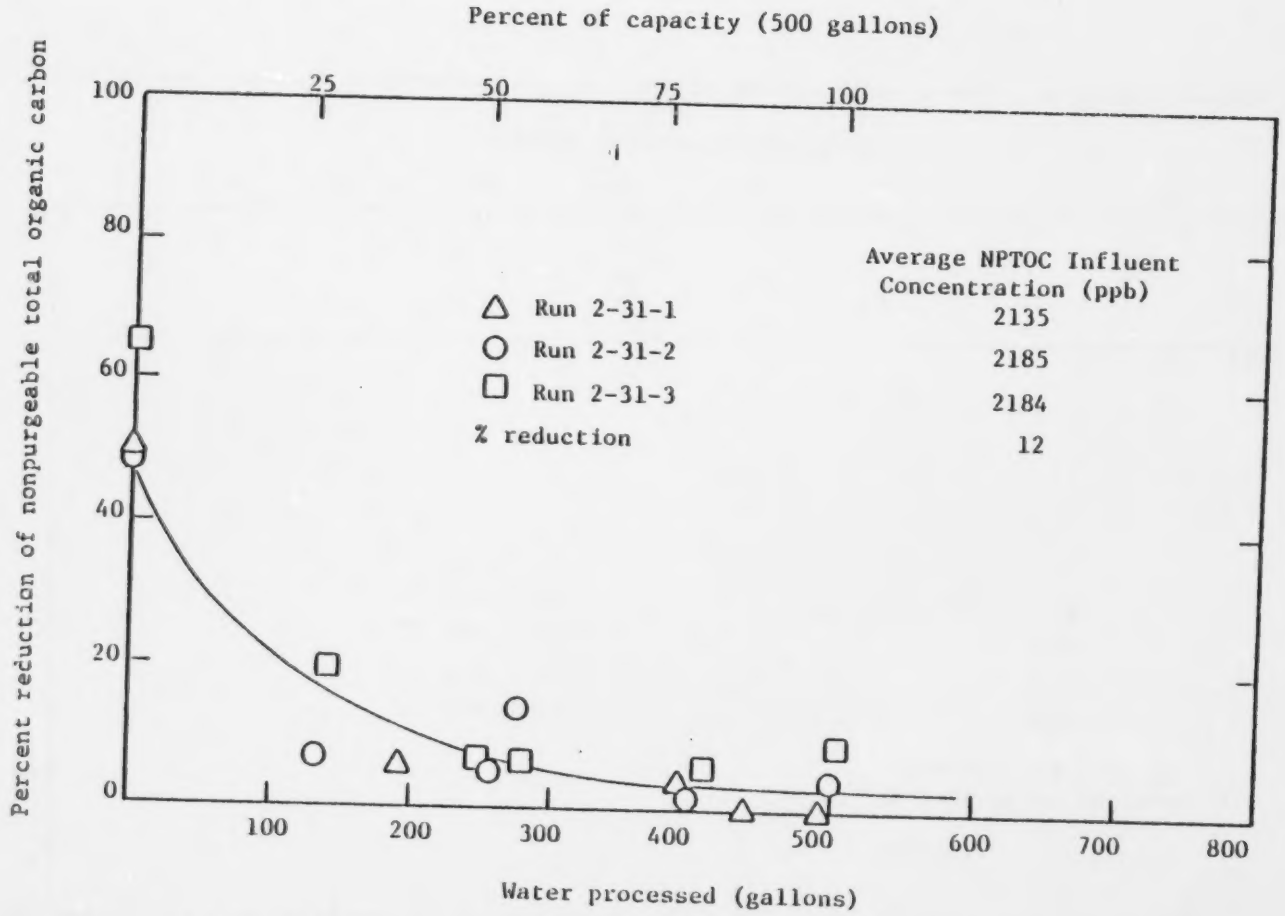

Figure S44. Summary performance of the Aquaguard, Model AGT-31 unit for NPTOC removal.

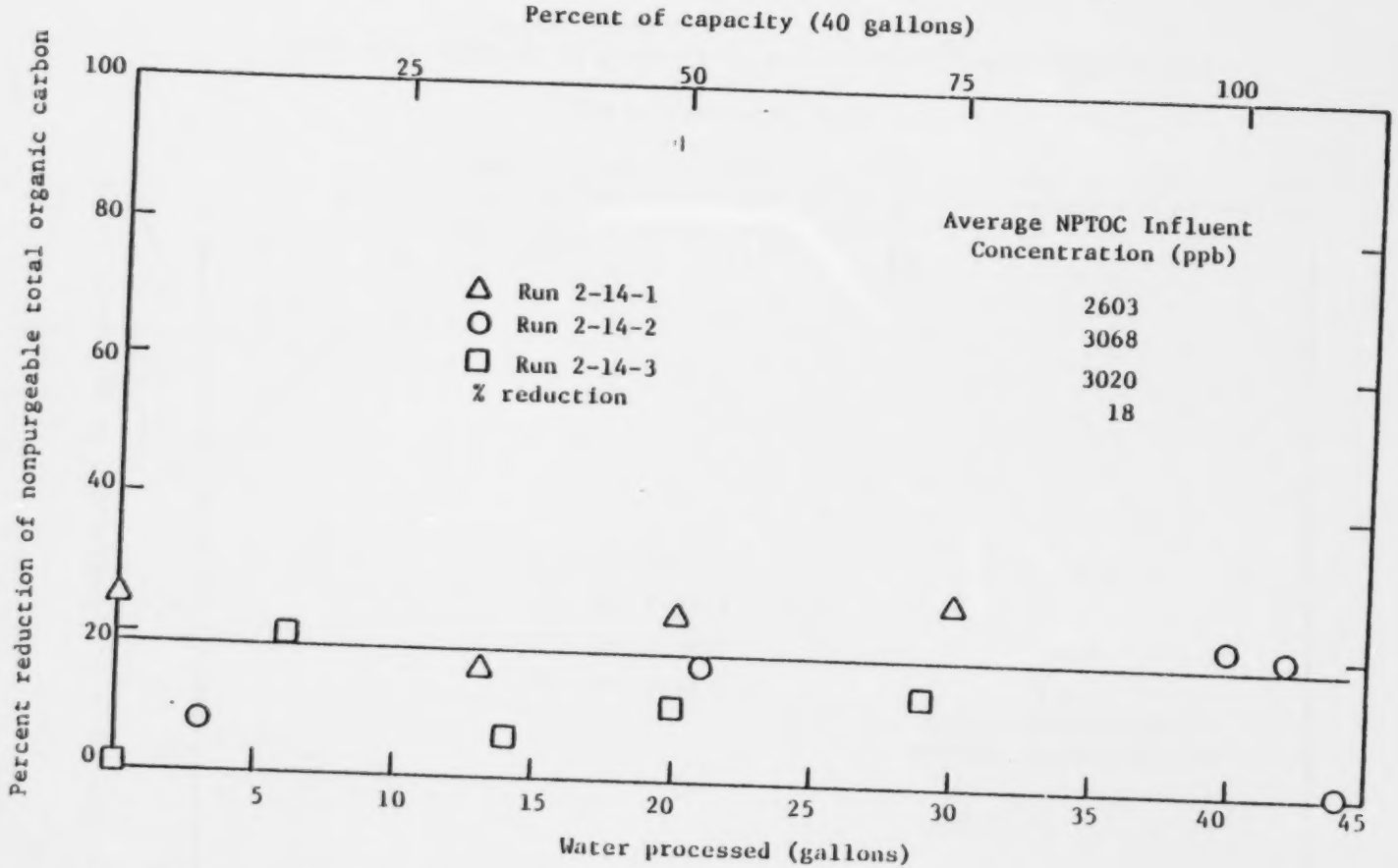

Figure S45. Summary performance of the Concept Bacteriostatic unit for NPTOC removal.

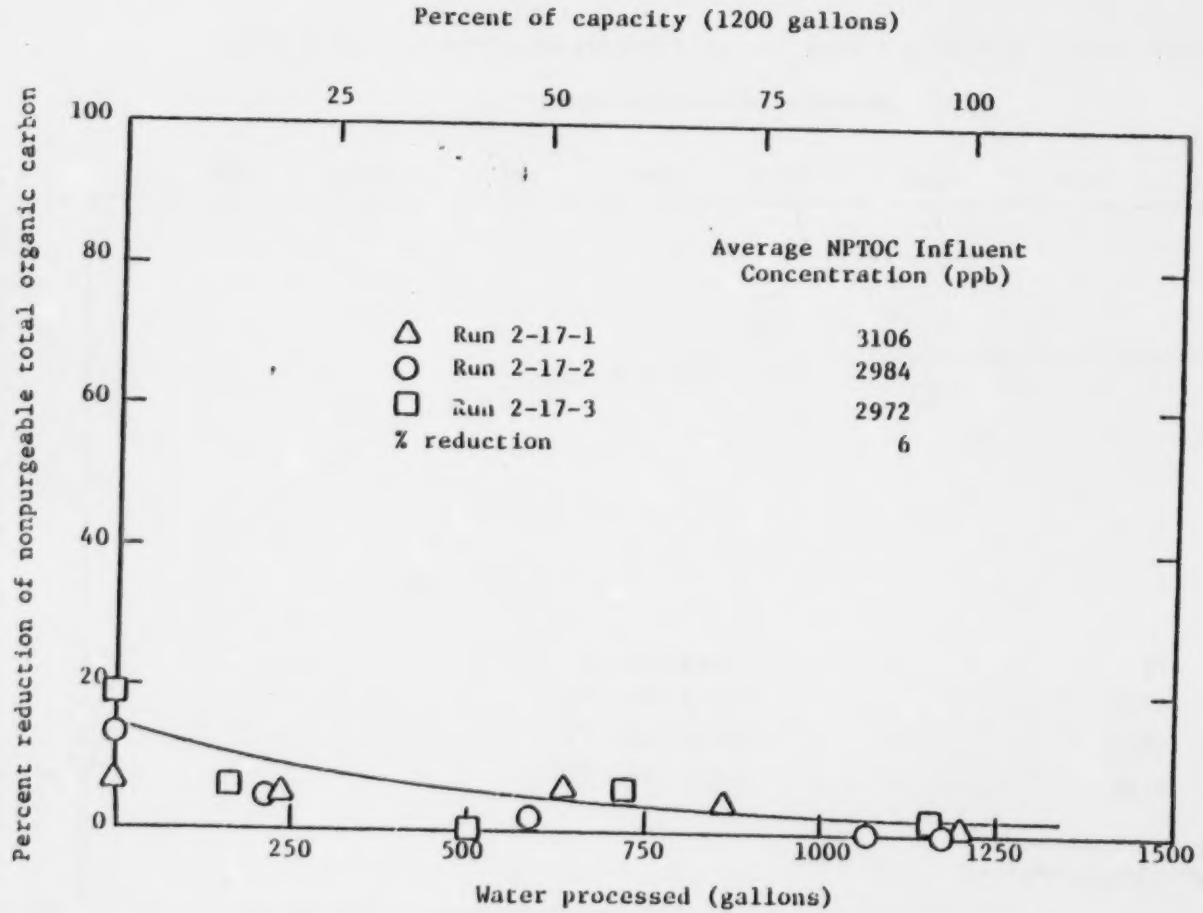

Figure S46. Summary performance of the Filter Fresh, Model FF-1 unit for NPTOC removal.

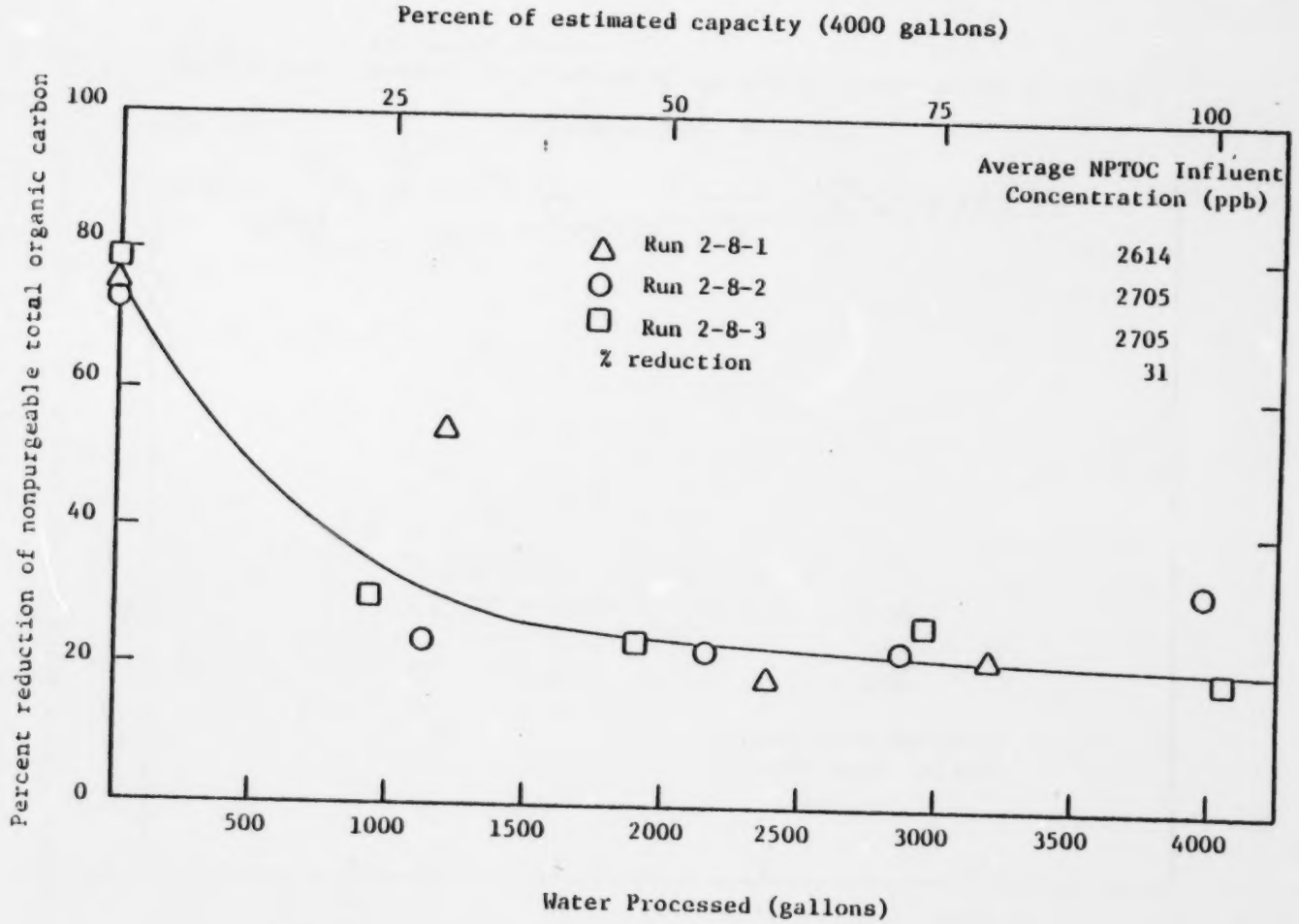

Figure S47. Summary performance of the Hurley Town and Country unit for NPTOC removal.

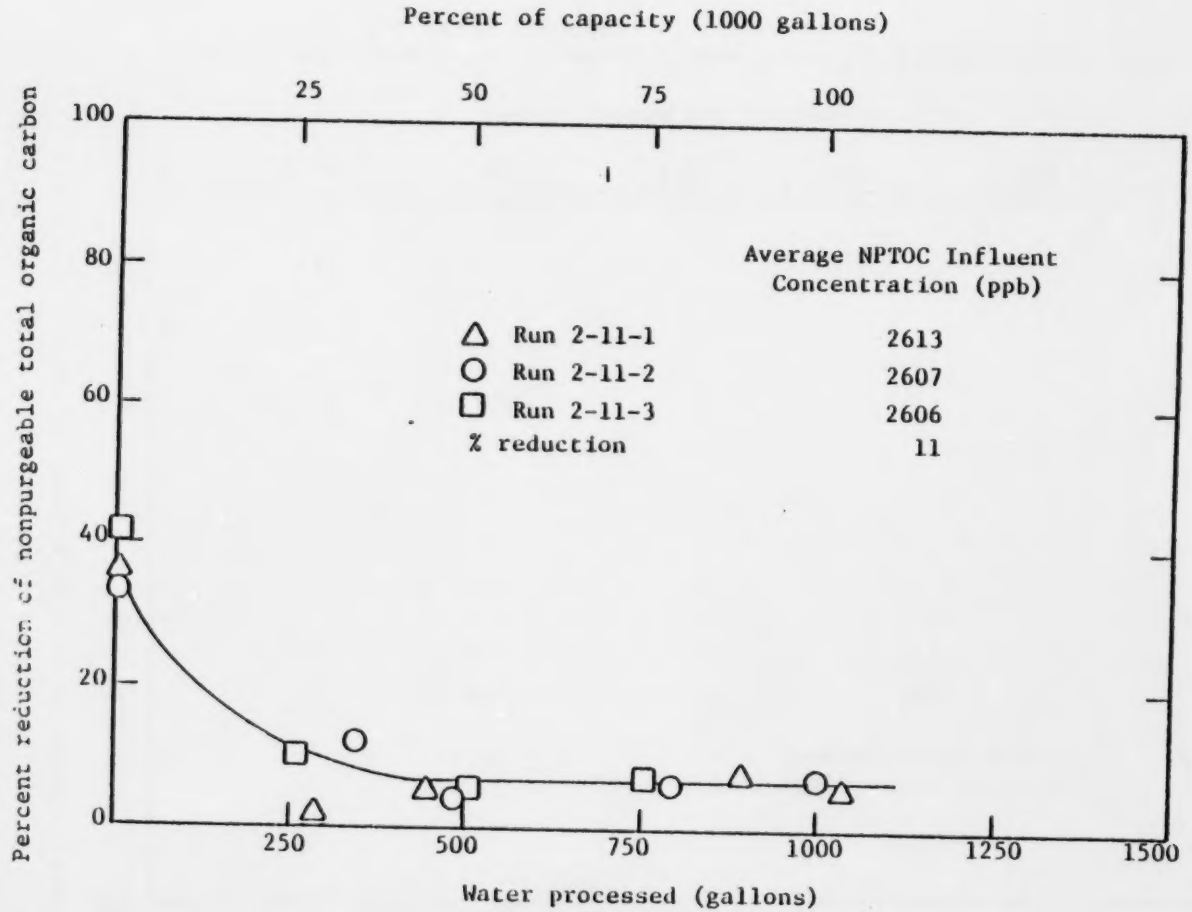

Figure S48. Summary performance of the Water Washer, Model 1000 unit for NPTOC removal.

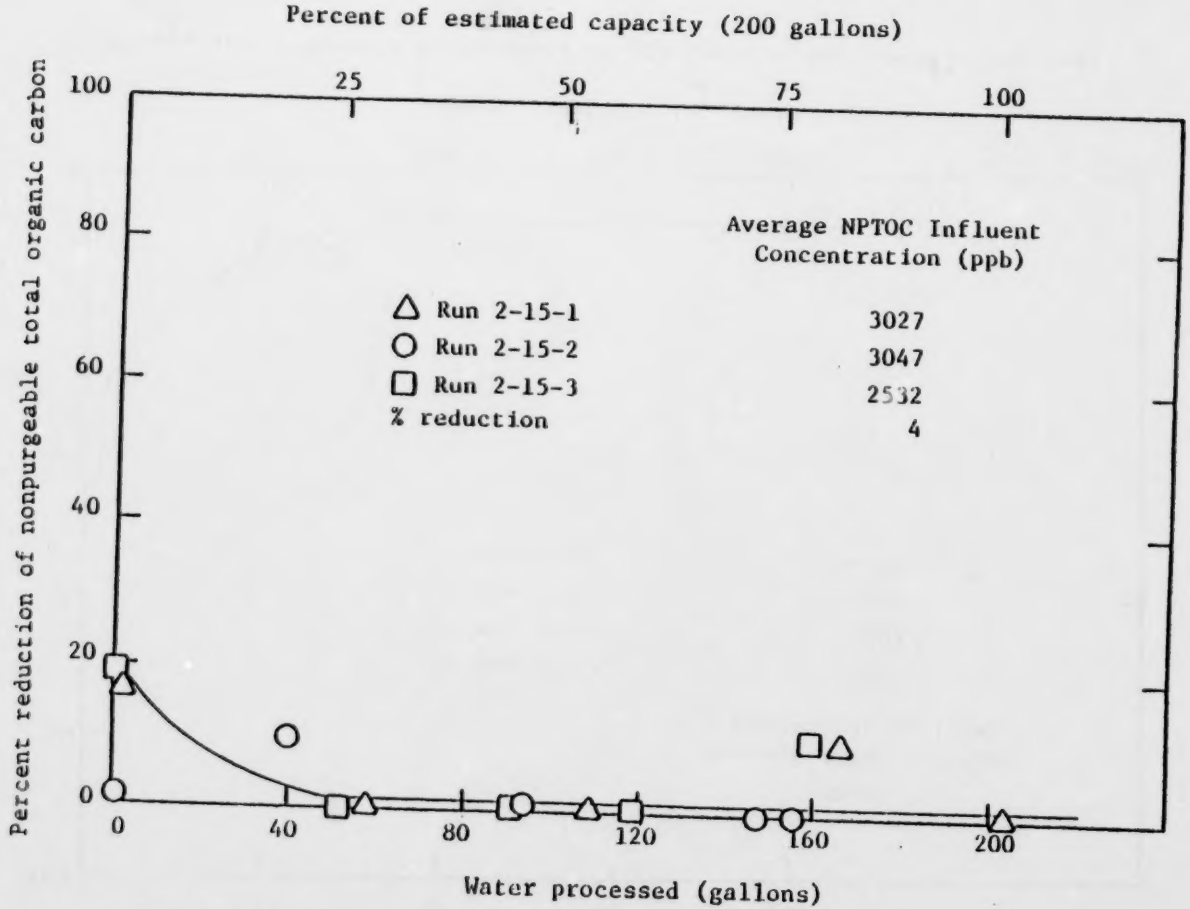

Figure S49. Summary performance of the Wunderbar Cleaner-Filter unit for NPTOC removal.

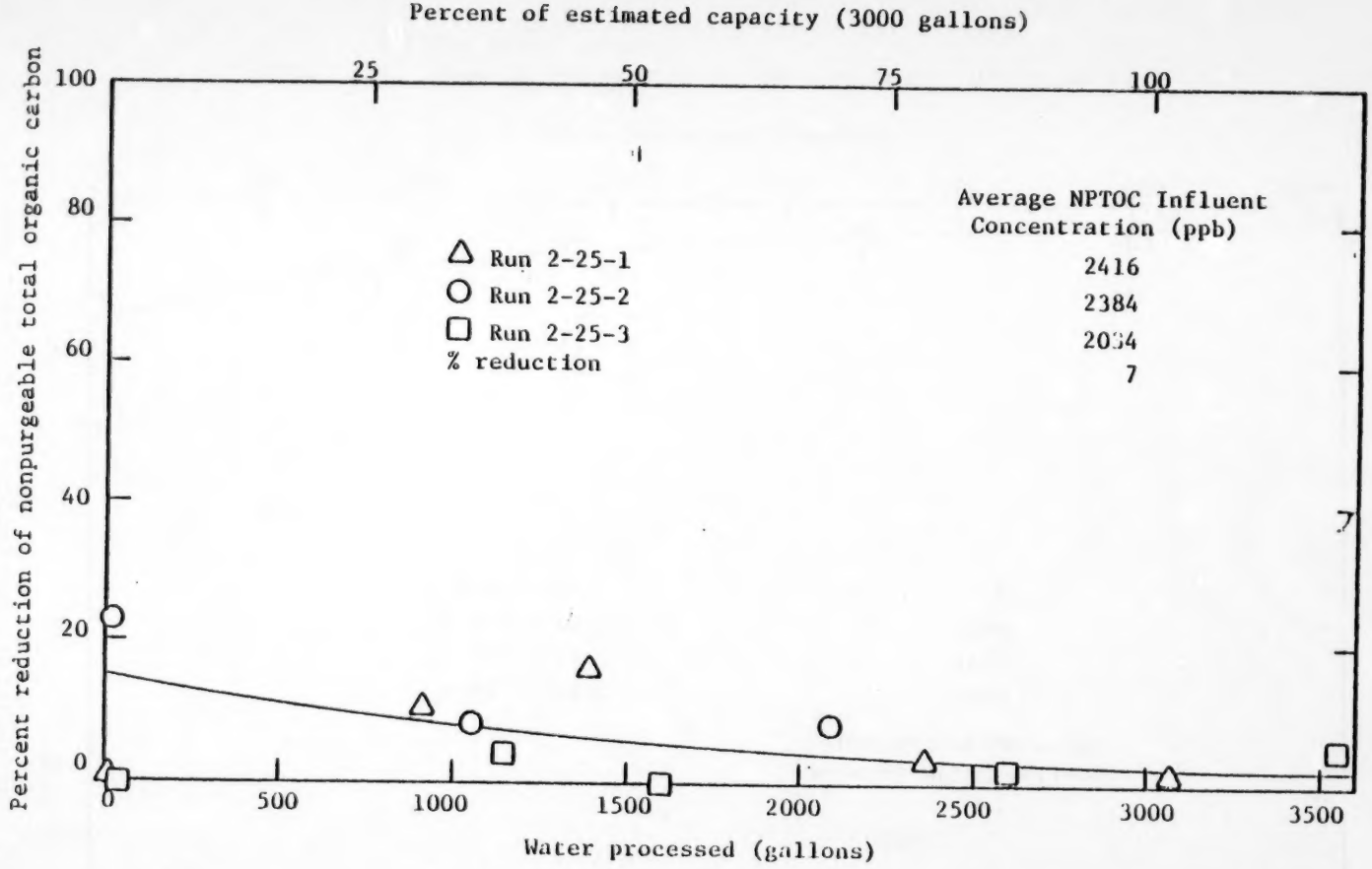

Figure S50. Summary performance of the AMF Cuno, Model 1M unit for NPTOC removal.

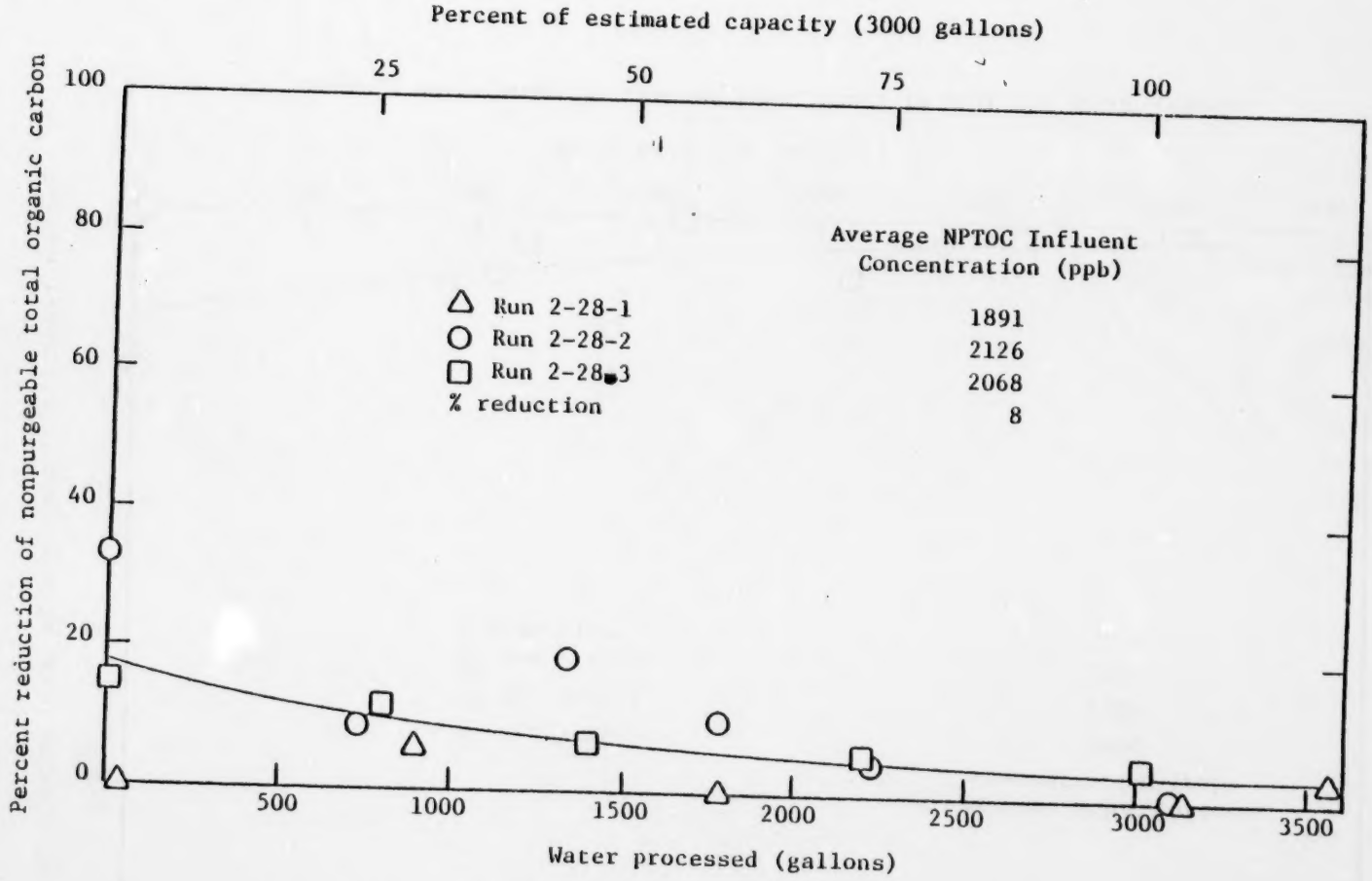

Figure S51. Summary performance of the Filterite, Model IPC unit for NPTOC removal.

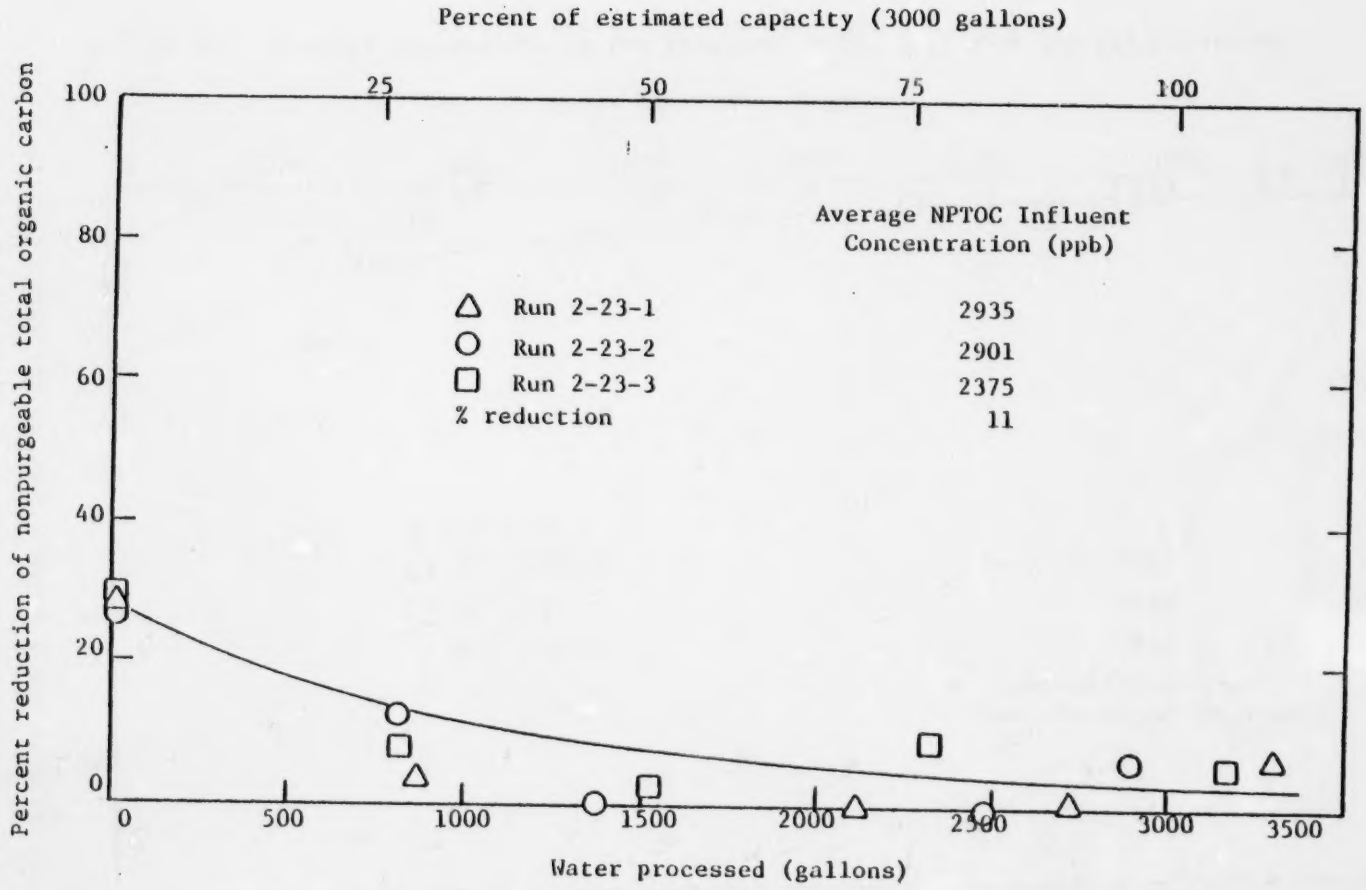

Figure S52. Summary performance of the Fulflo, Model WC-10 unit for NPTOC removal.

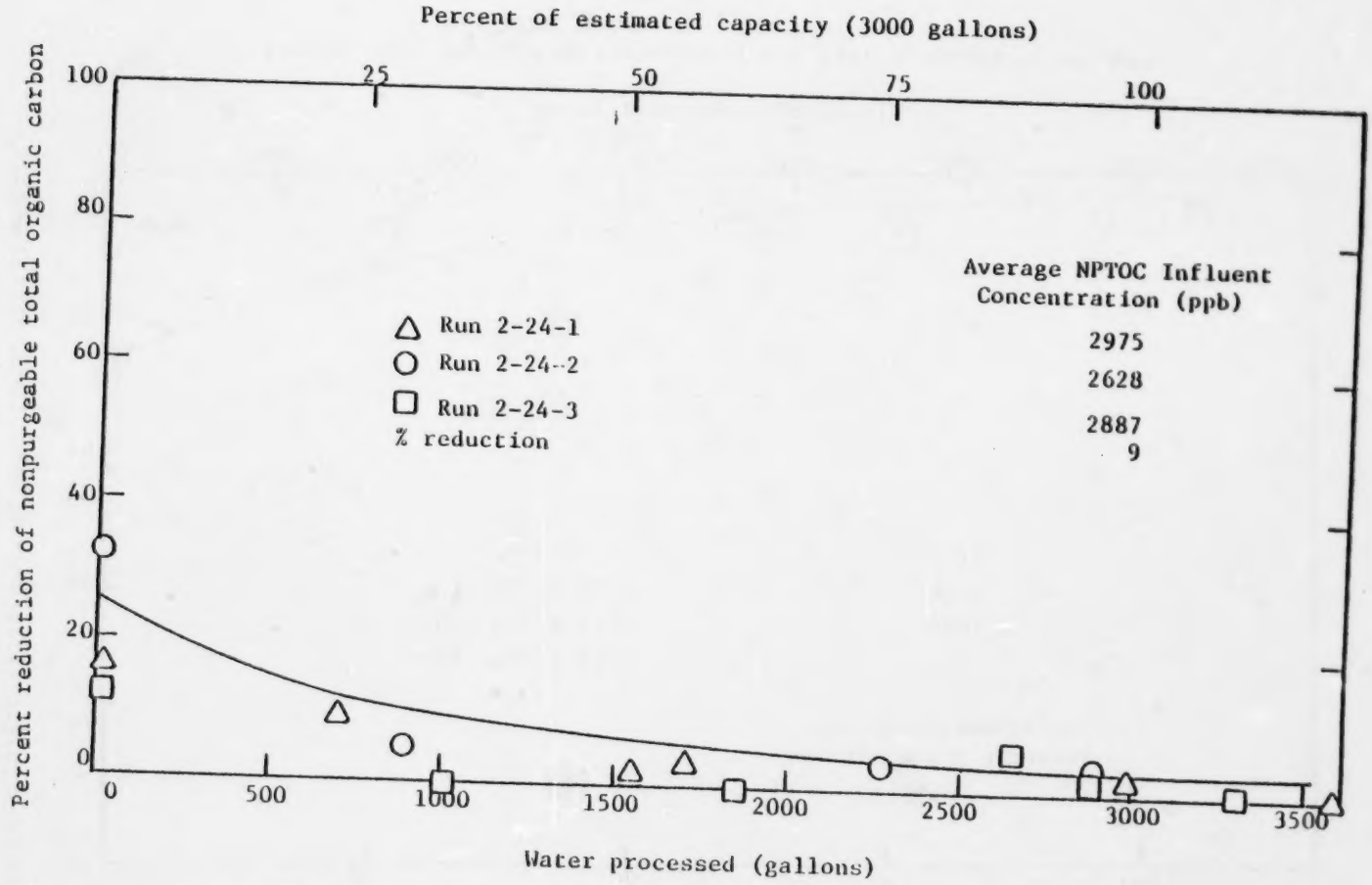

Figure S53. Summary performance of the Keystone, Model 3121 unit for NPTOC removal.

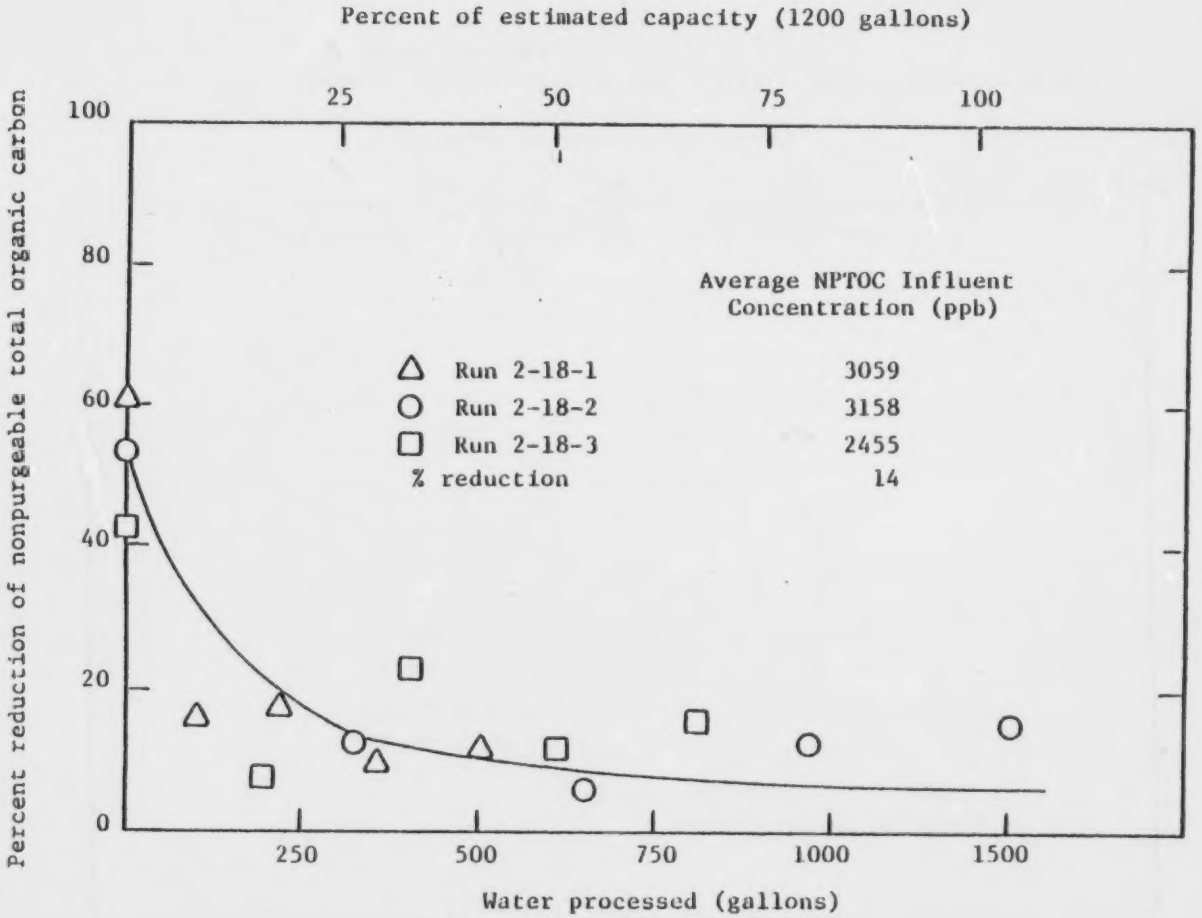

Figure S54. Summary performance of the Filbrook Pour-Thru unit for NPTOC removal.

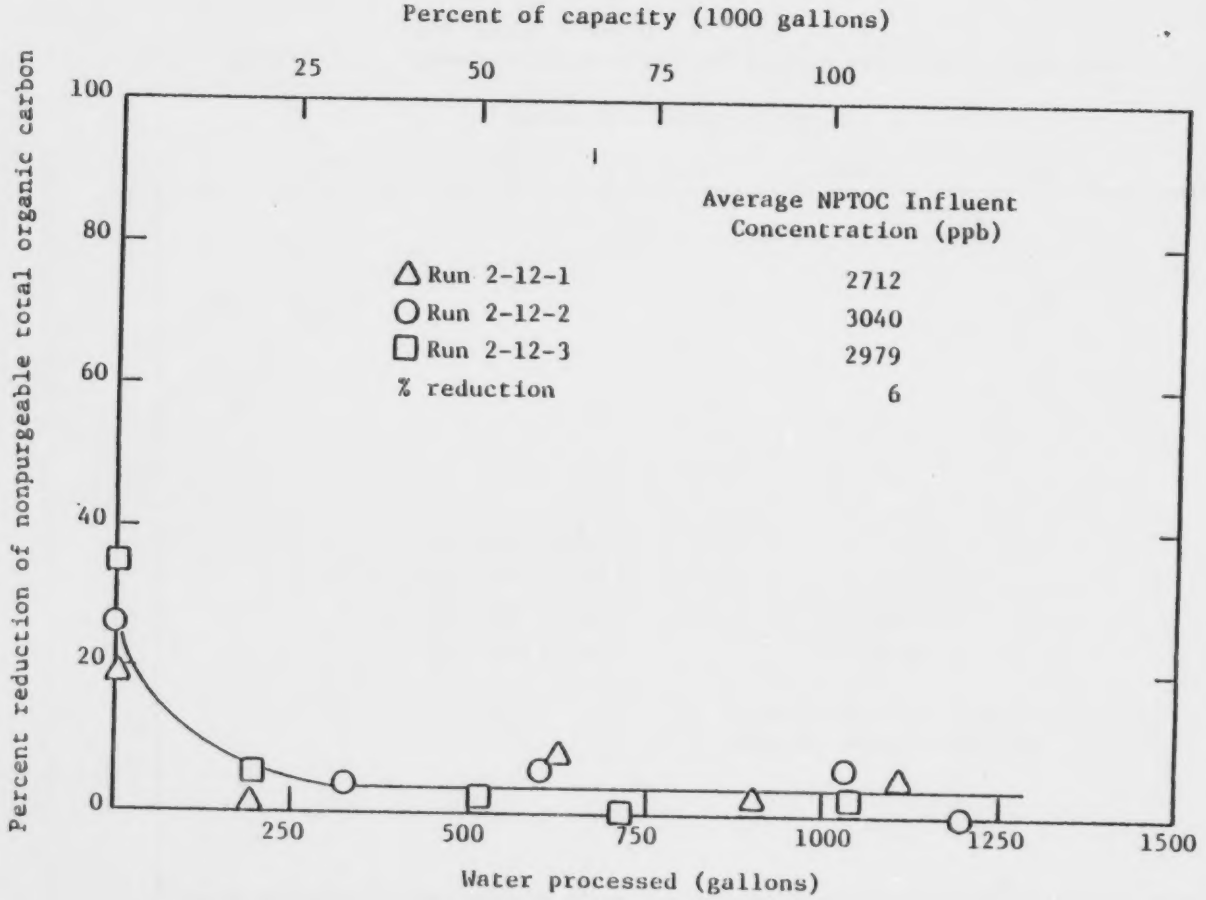

Figure S55. Summary performance of the Puriton Bacteriostatic unit for NPTOC removal.

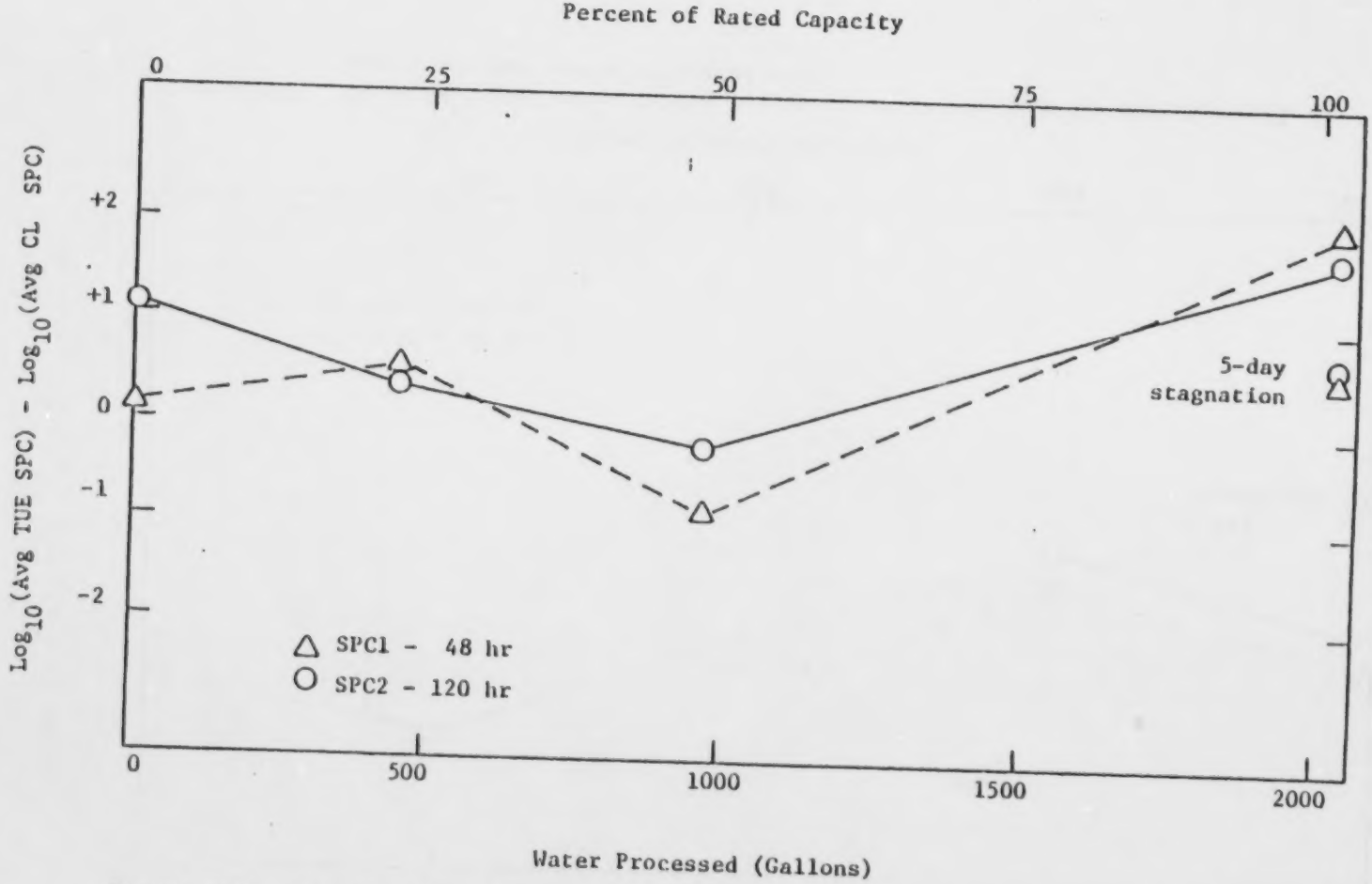

Figure S56. Standard plate count levels versus water consumption for the Argenion Bacteriostatic unit.

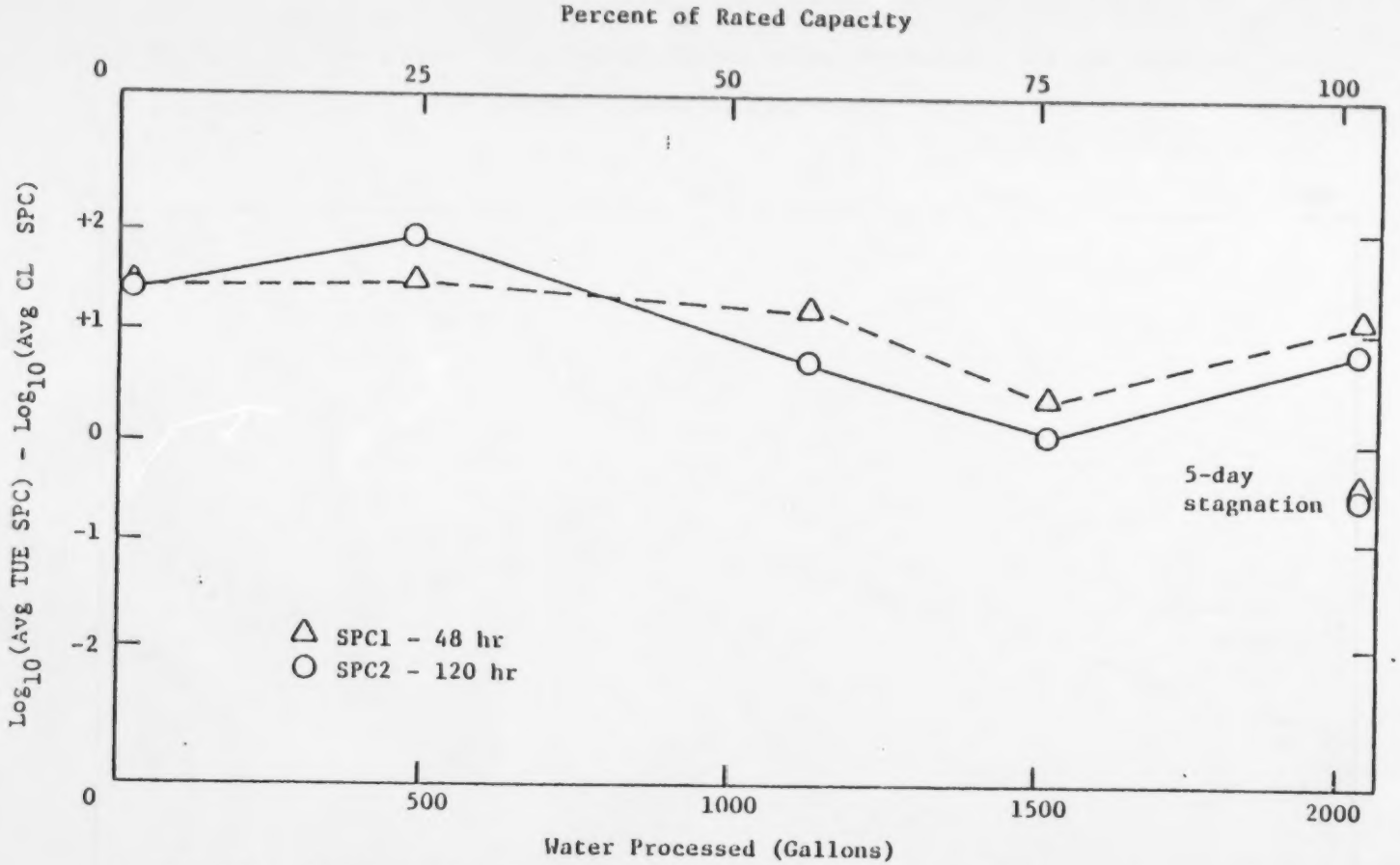

Figure S57. Standard plate count levels versus water consumption for the Aquacell Bacteriostatic water treatment unit.

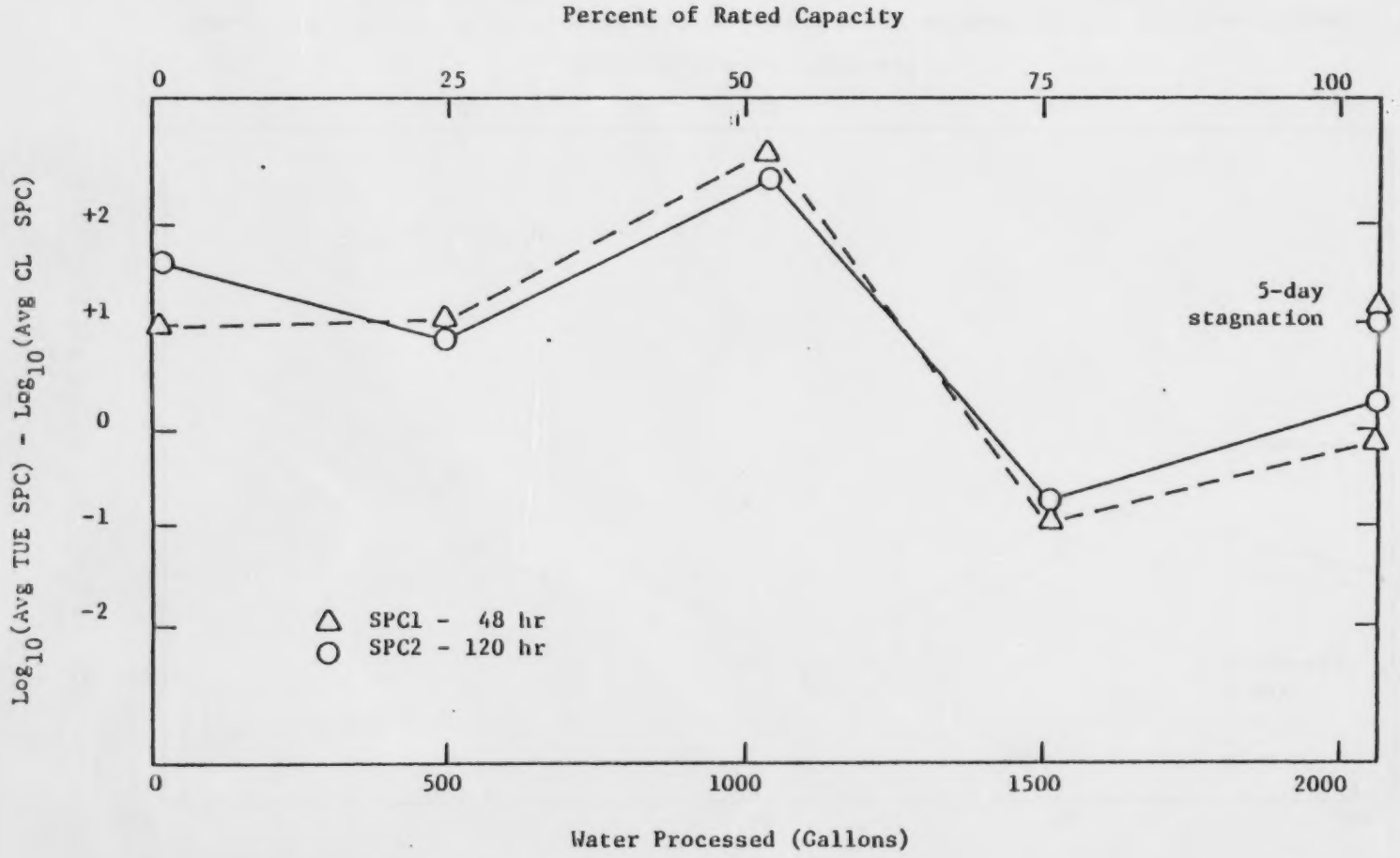

Figure S58. Standard plate count levels versus water consumption for the Aqualux Model CB-2 unit.

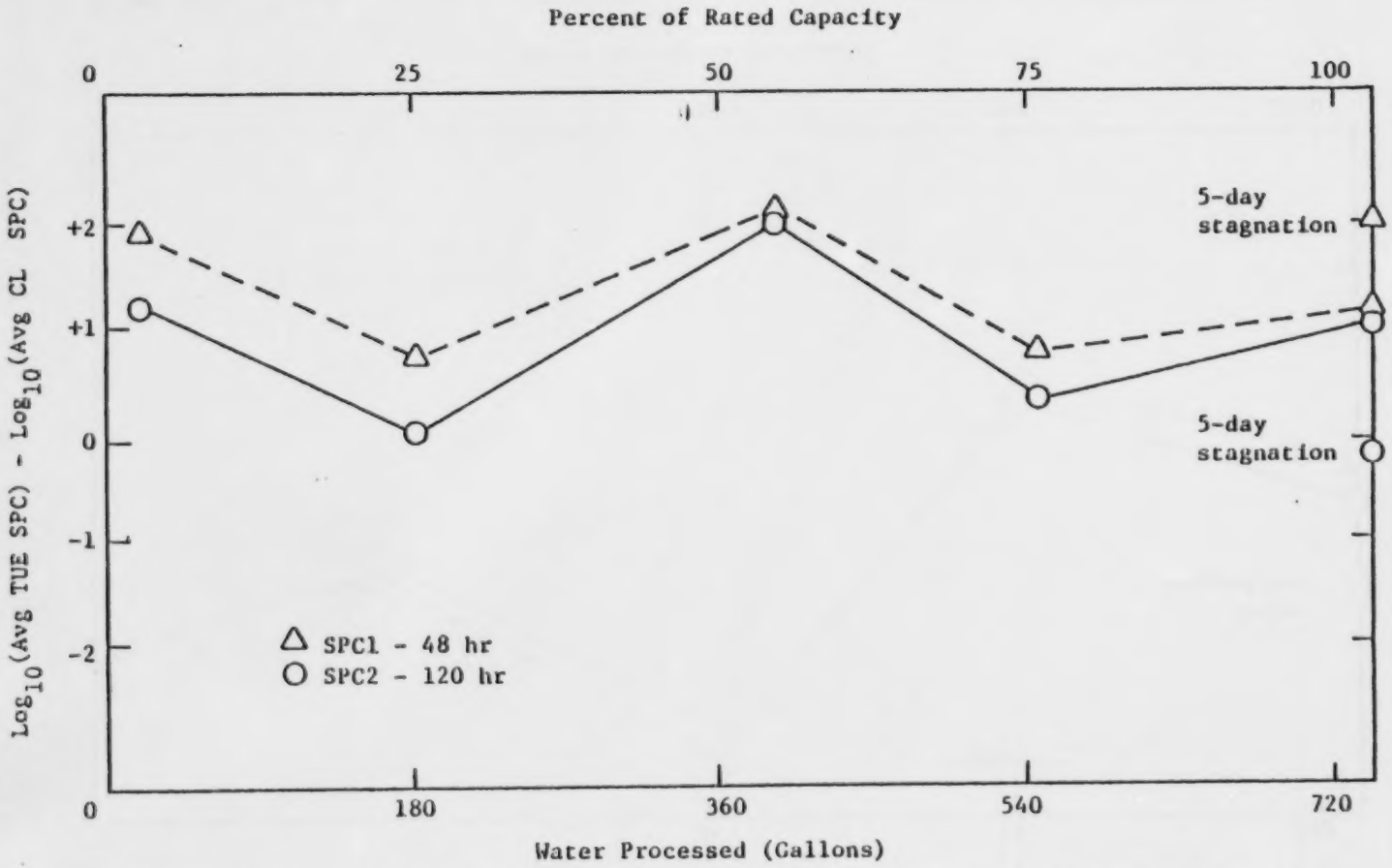

Figure S59. Standard plate count levels versus water consumption for the Continental, Model 350 unit.

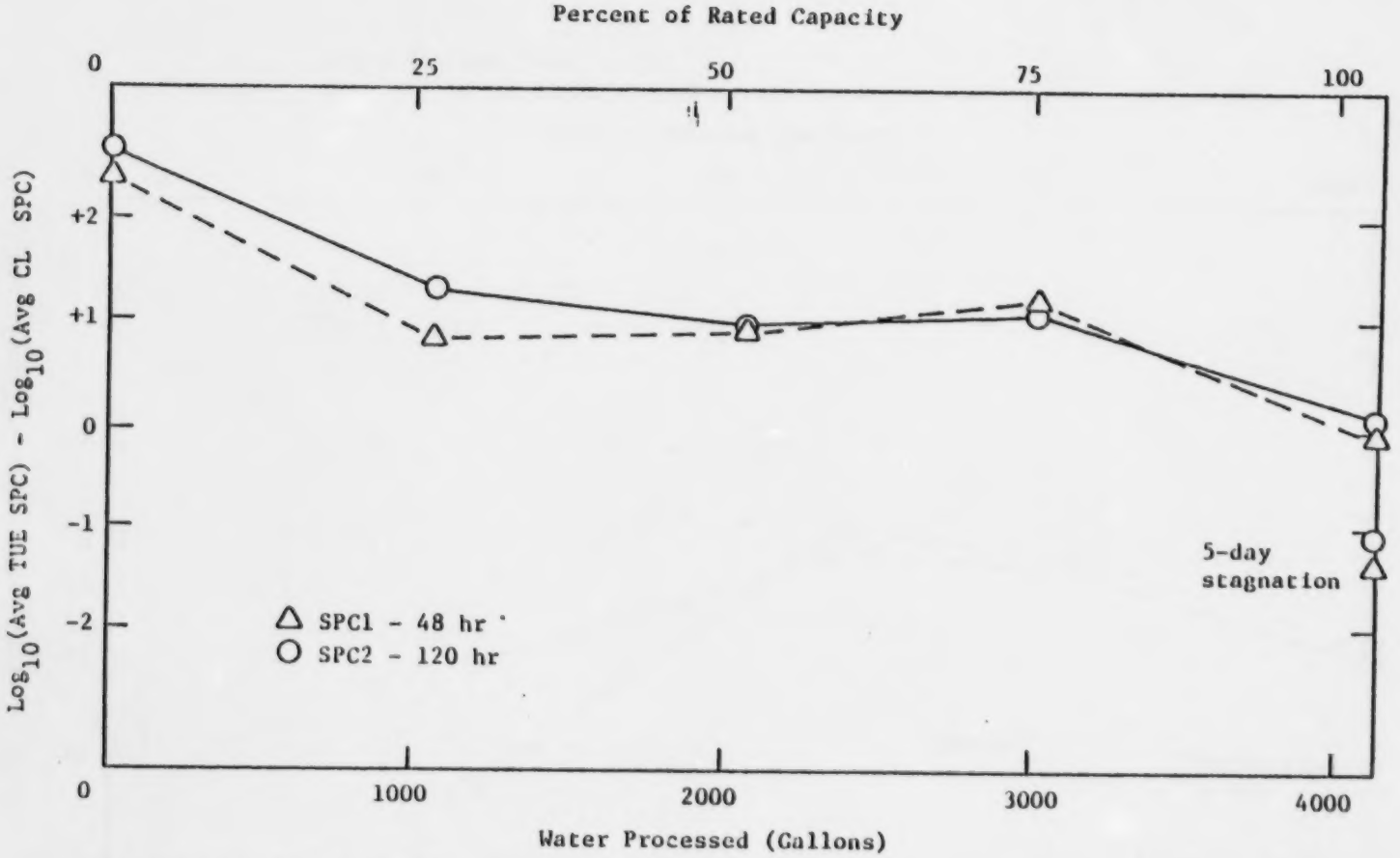

Figure 60. Standard plate count levels versus water consumption for the Culligan, Model SG-2 unit.

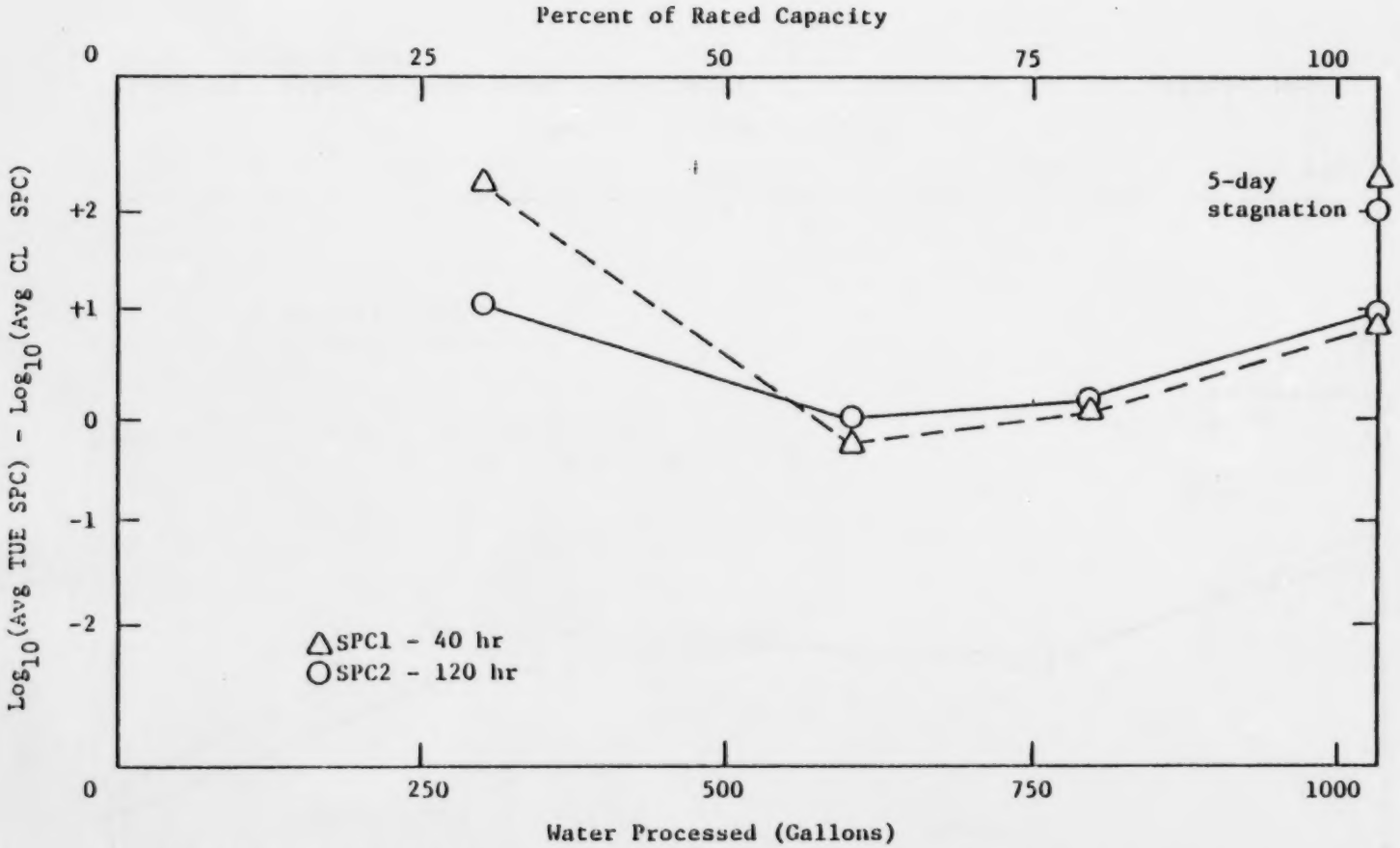

Figure S61. Standard plate count levels versus water consumption for the Everpure Model QC4-THM unit.

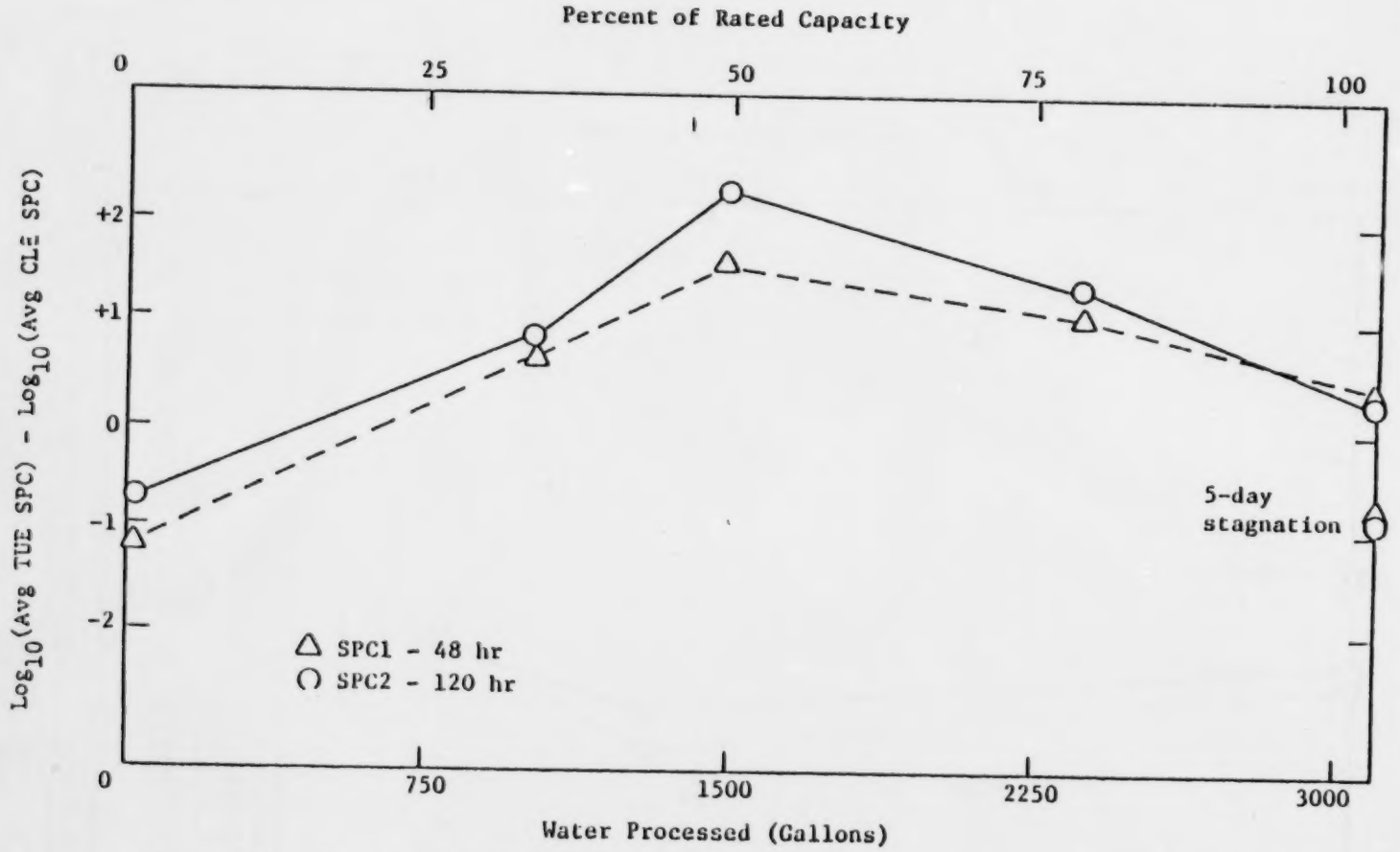

Figure S62. Standard plate count levels versus water consumption for the Mariner Renaturalizer unit.

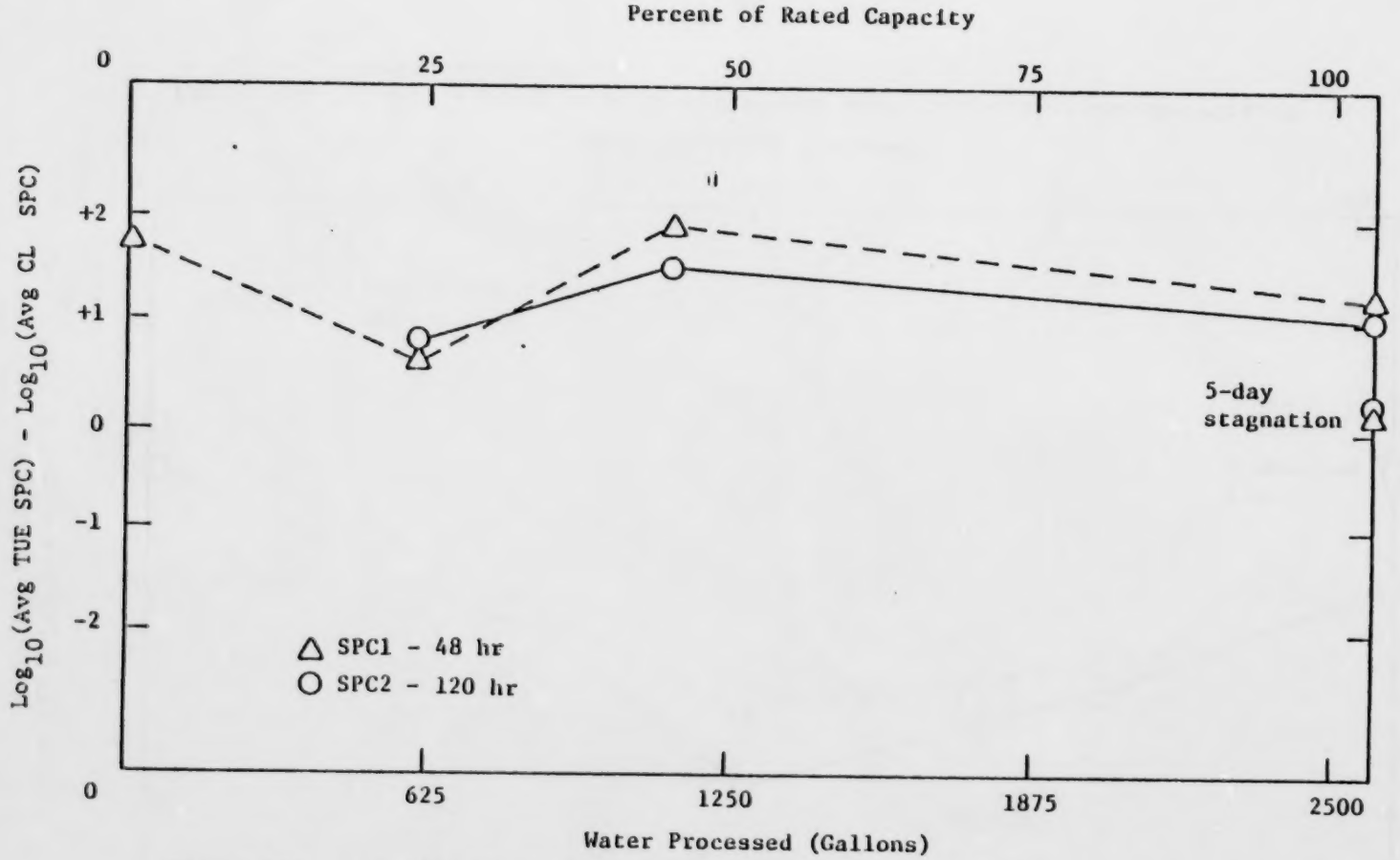

Figure S63. Standard plate count levels versus water consumption for the Polarisdynamic unit.

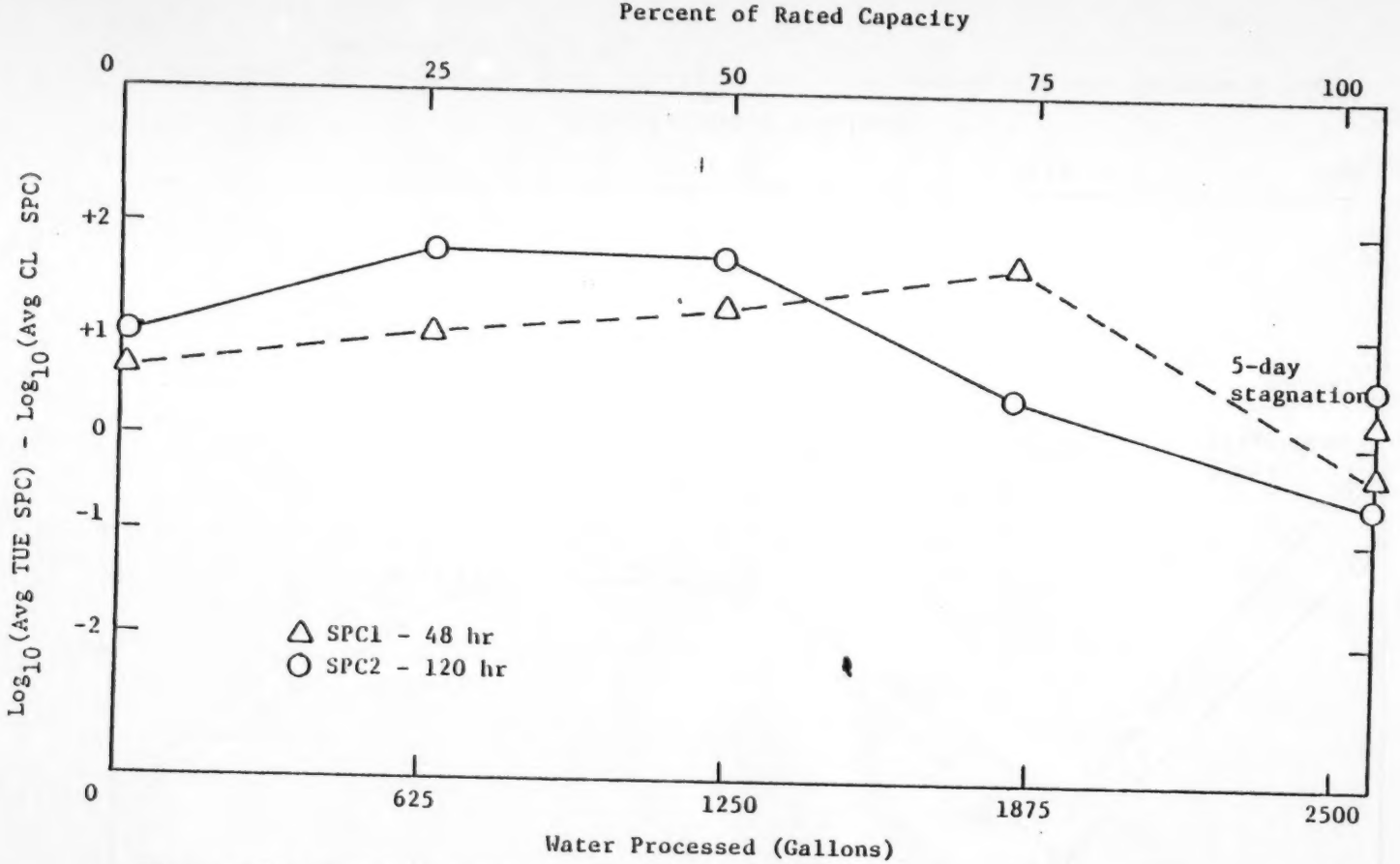

Figure S64. Standard plate count levels versus water consumption for the Purogen water detoxifier unit.

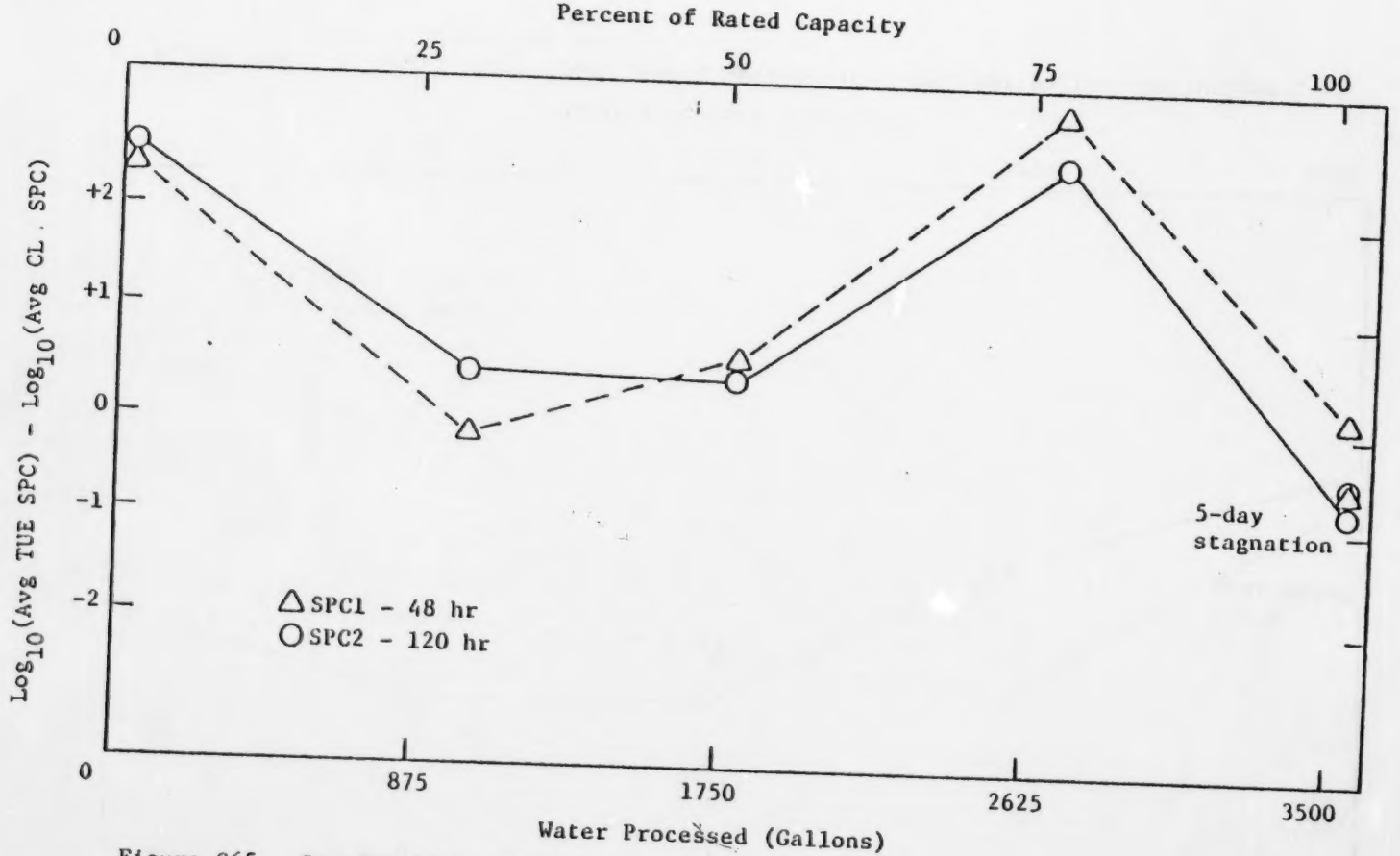

Figure S65. Standard plate count levels versus water consumption for the Rohm & Haas Ambersorb XE-340 unit.

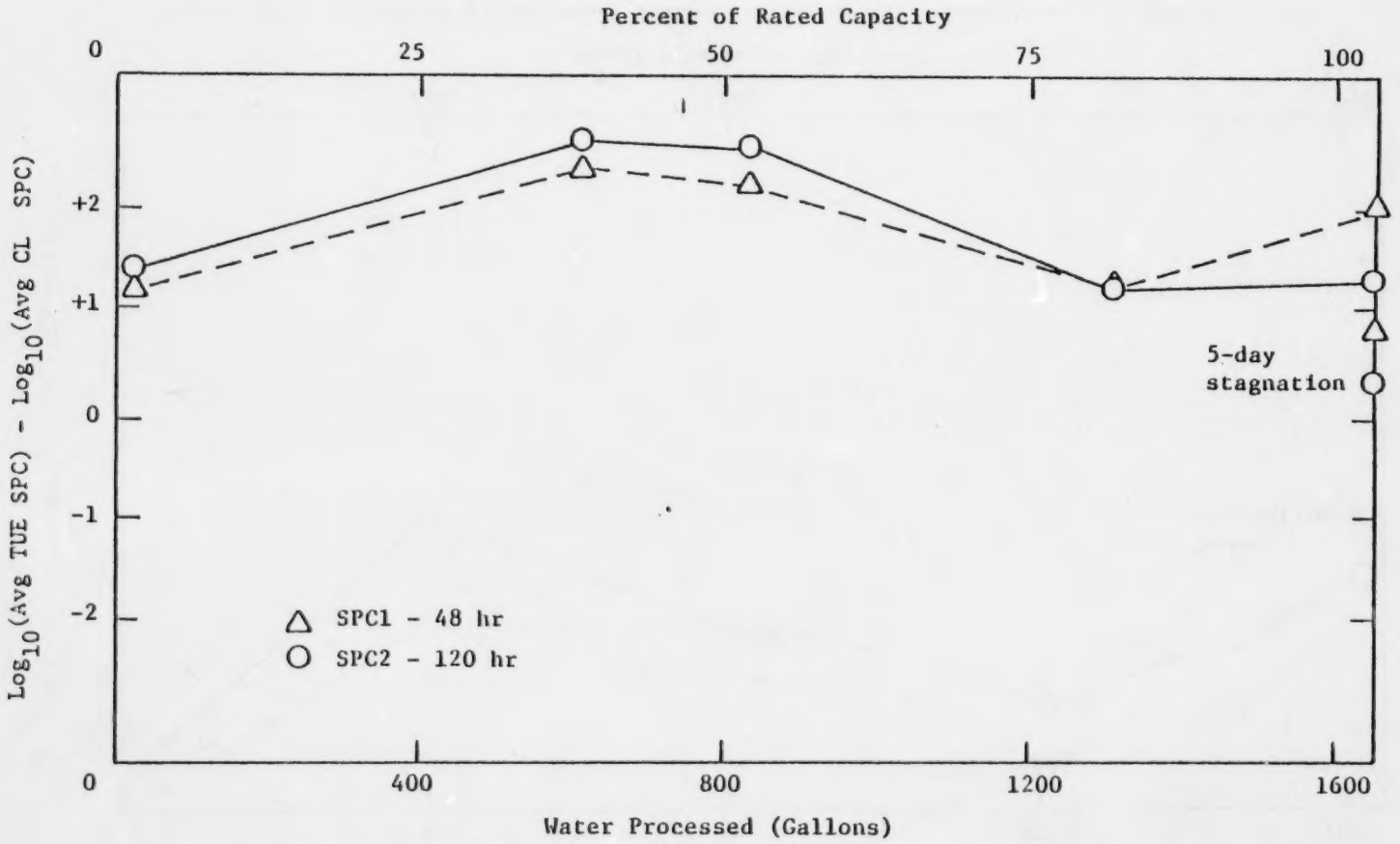

Figure S66. Standard plate count levels versus water consumption for the Seagull IV unit.

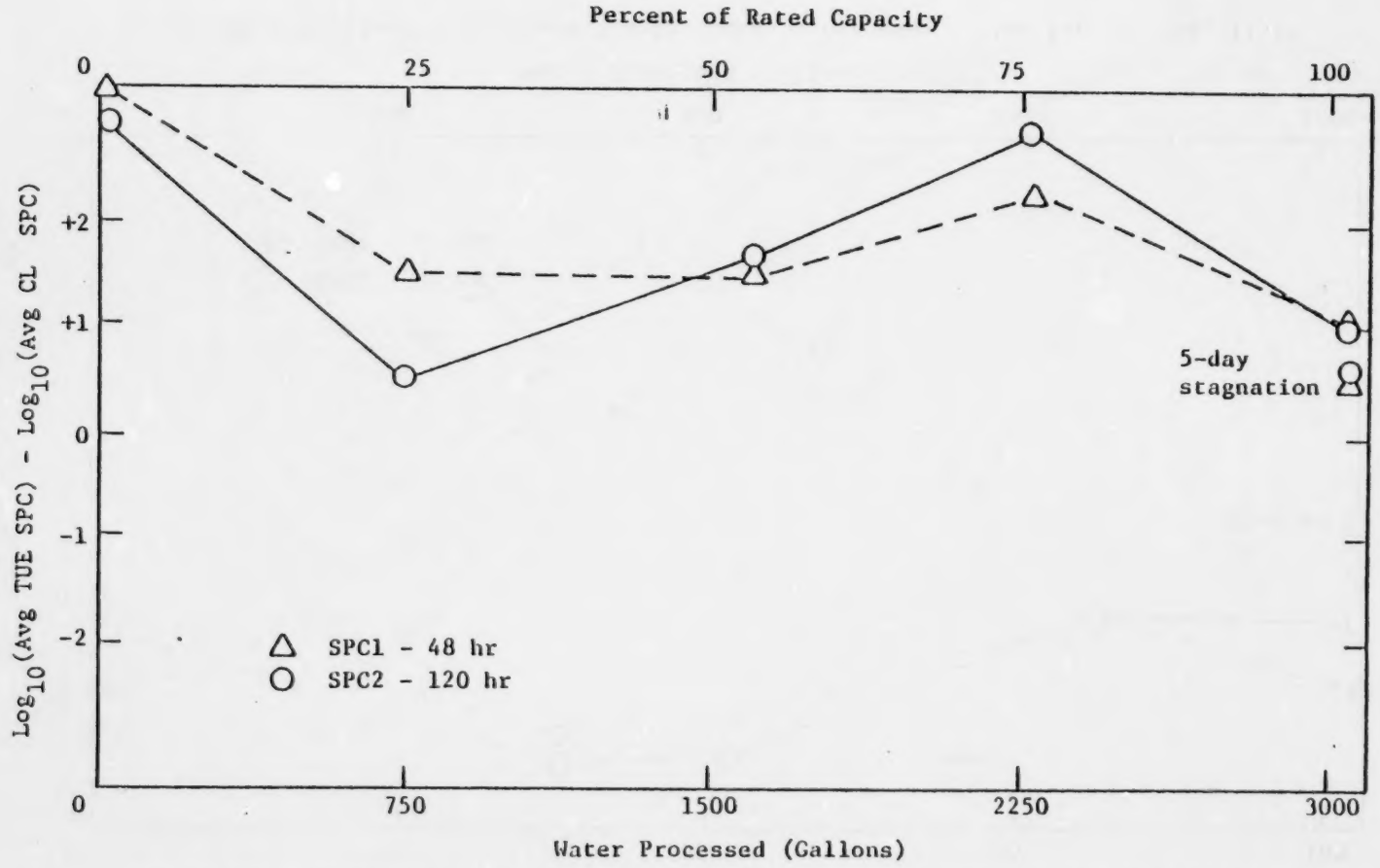

Figure S67. Standard plate count levels versus water consumption for the Ultrapure Bacteriostatic unit.

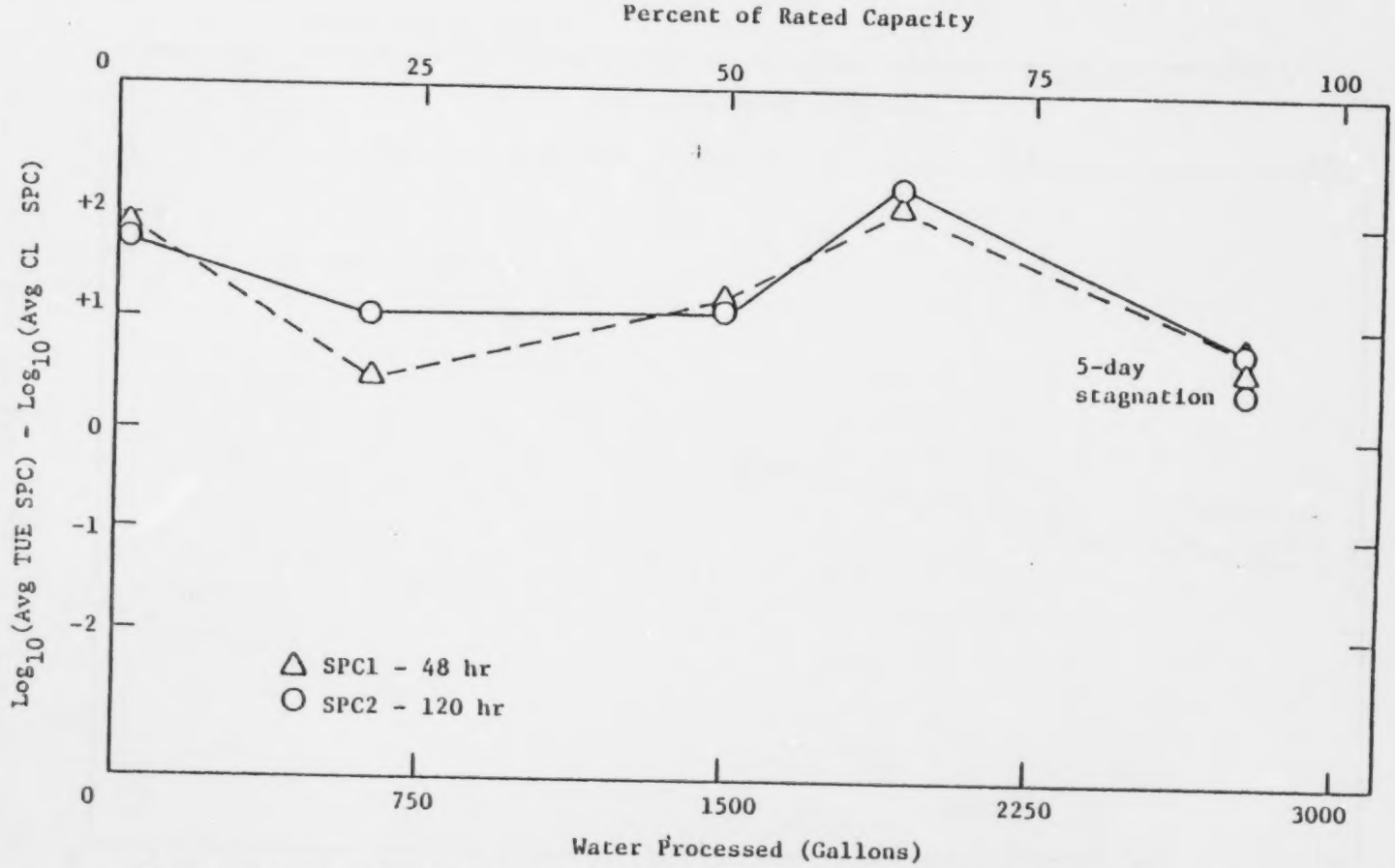

Figure S68. Standard plate count levels versus water consumption for the Waterco, Model AS-5 unit.

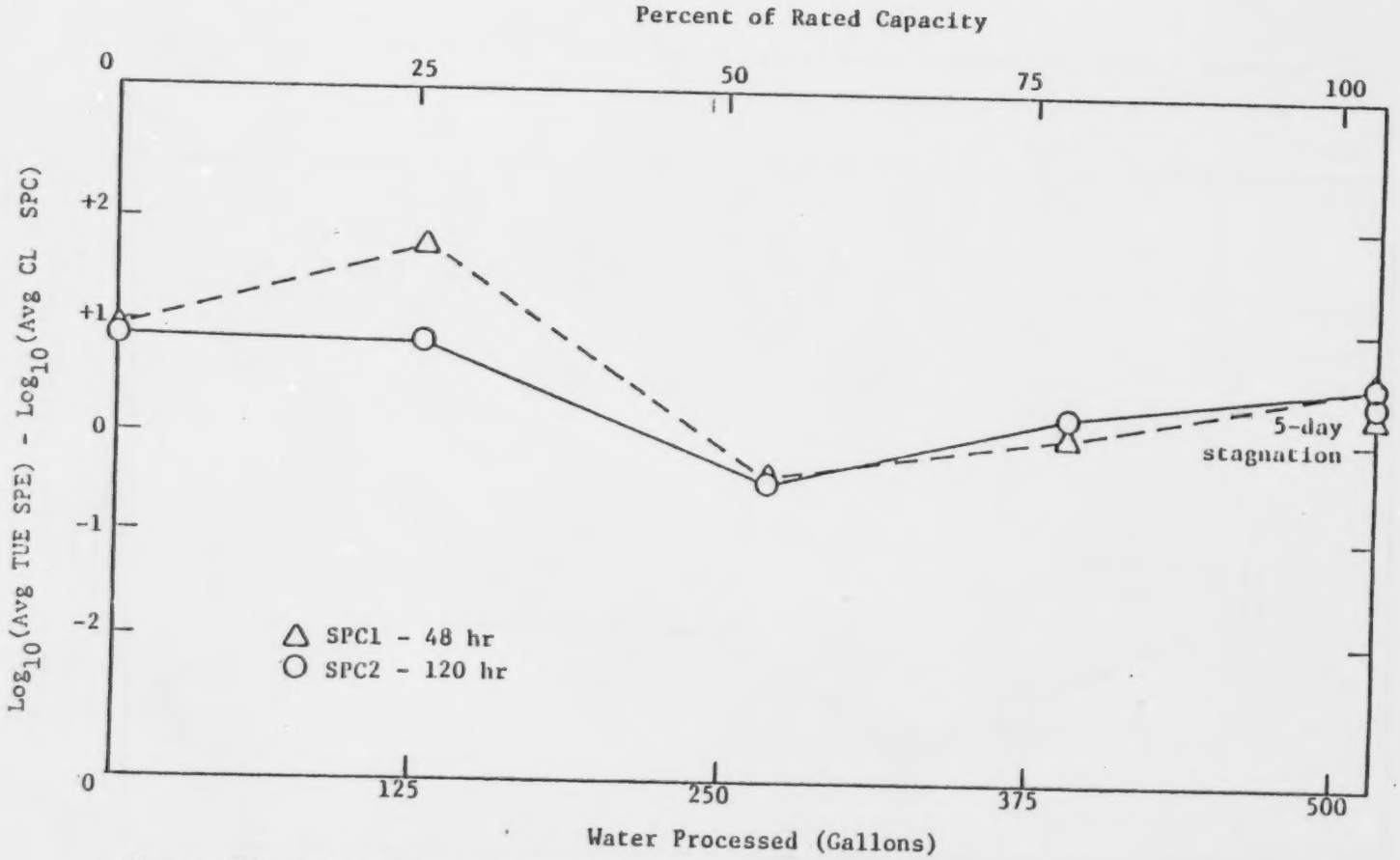

Figure S69. Standard plate count levels versus water consumption for the Aquaguard, Model AGT-31 unit.

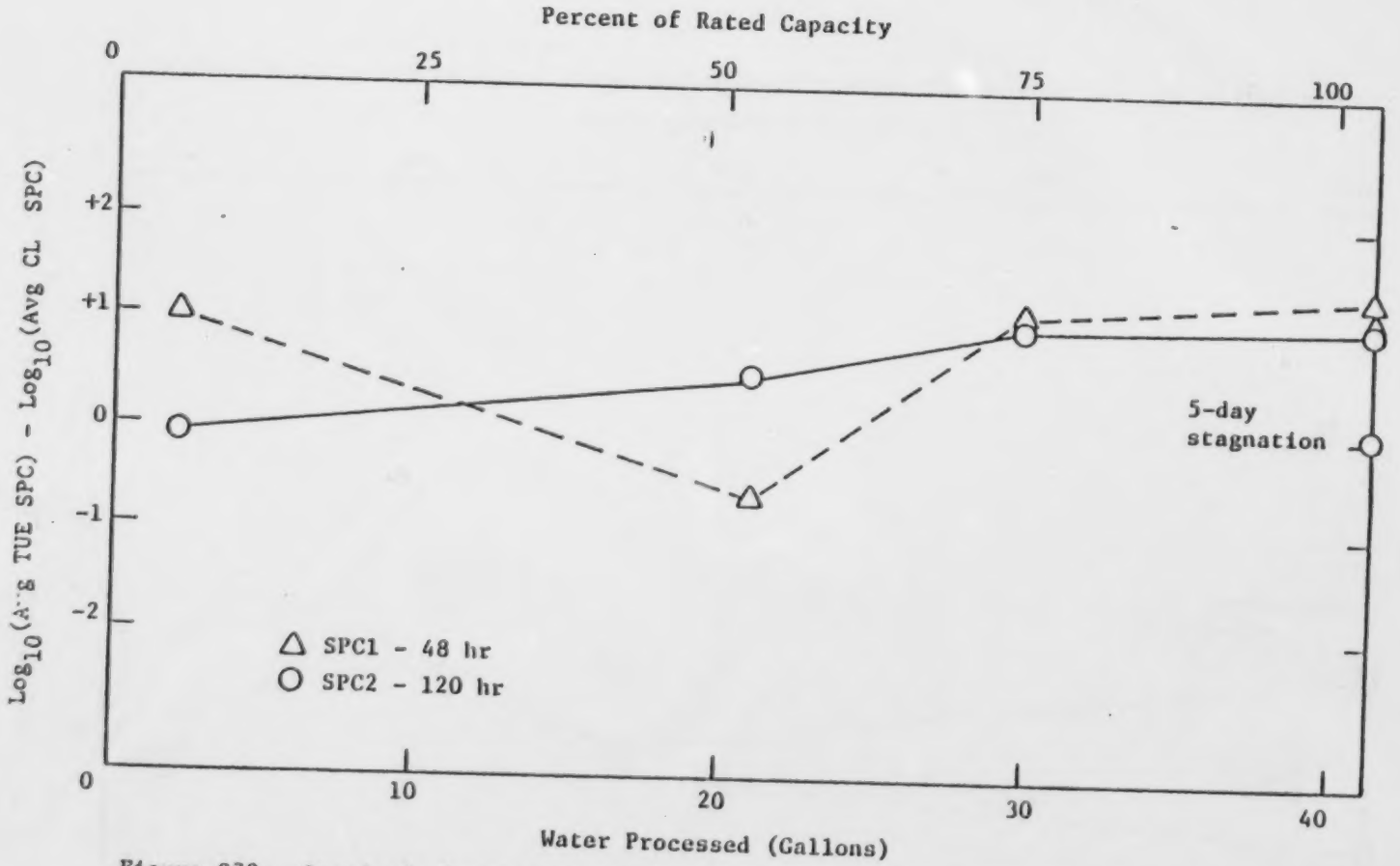

Figure S70. Standard plate count levels versus water consumption for the Concept Bacteriostatic unit.

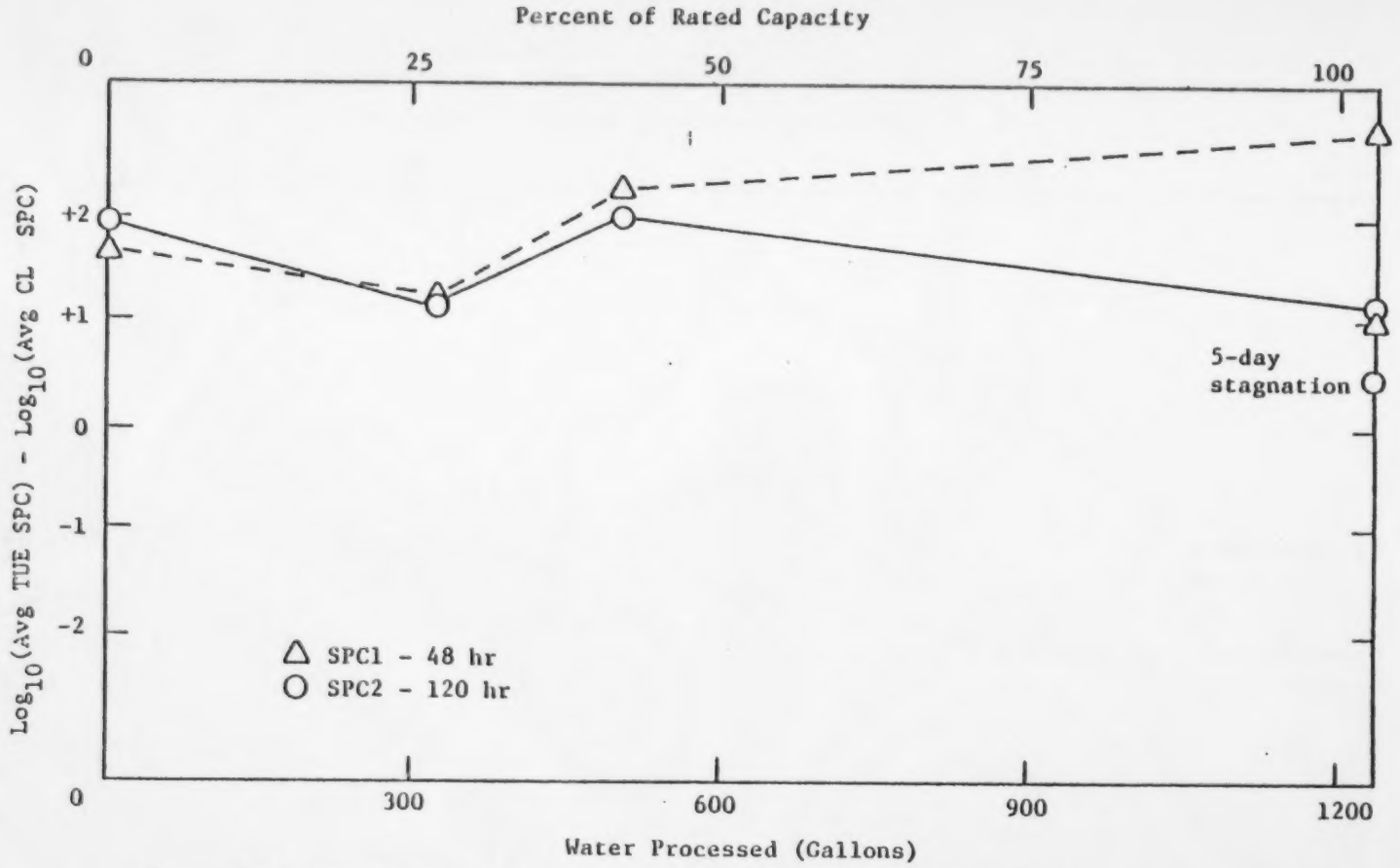

Figure S71. Standard plate count levels versus water consumption for the Filter Fresh, Model FF-1 unit.

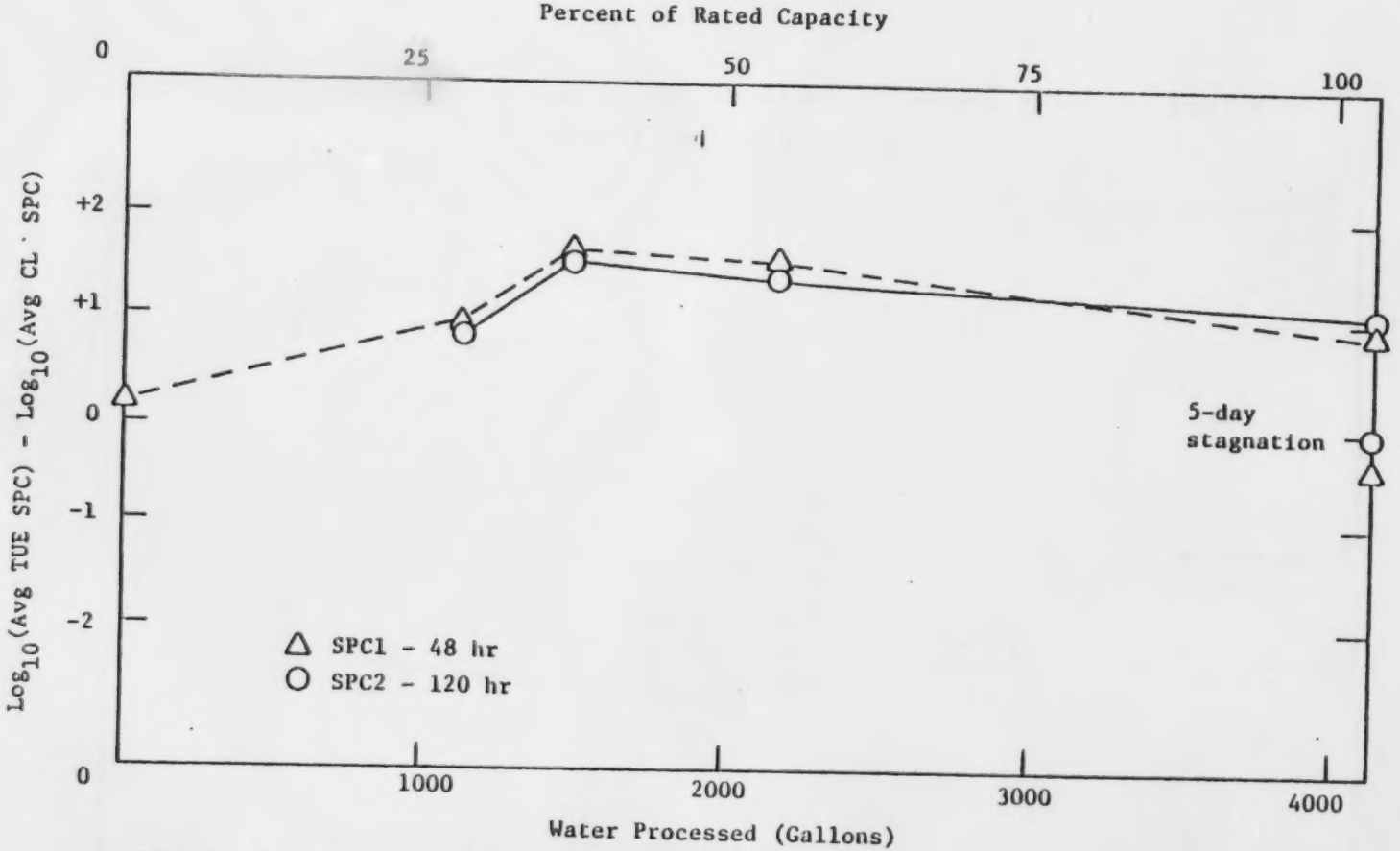

Figure S72. Standard plate count levels versus water consumption for the Hurley Town and Country unit.

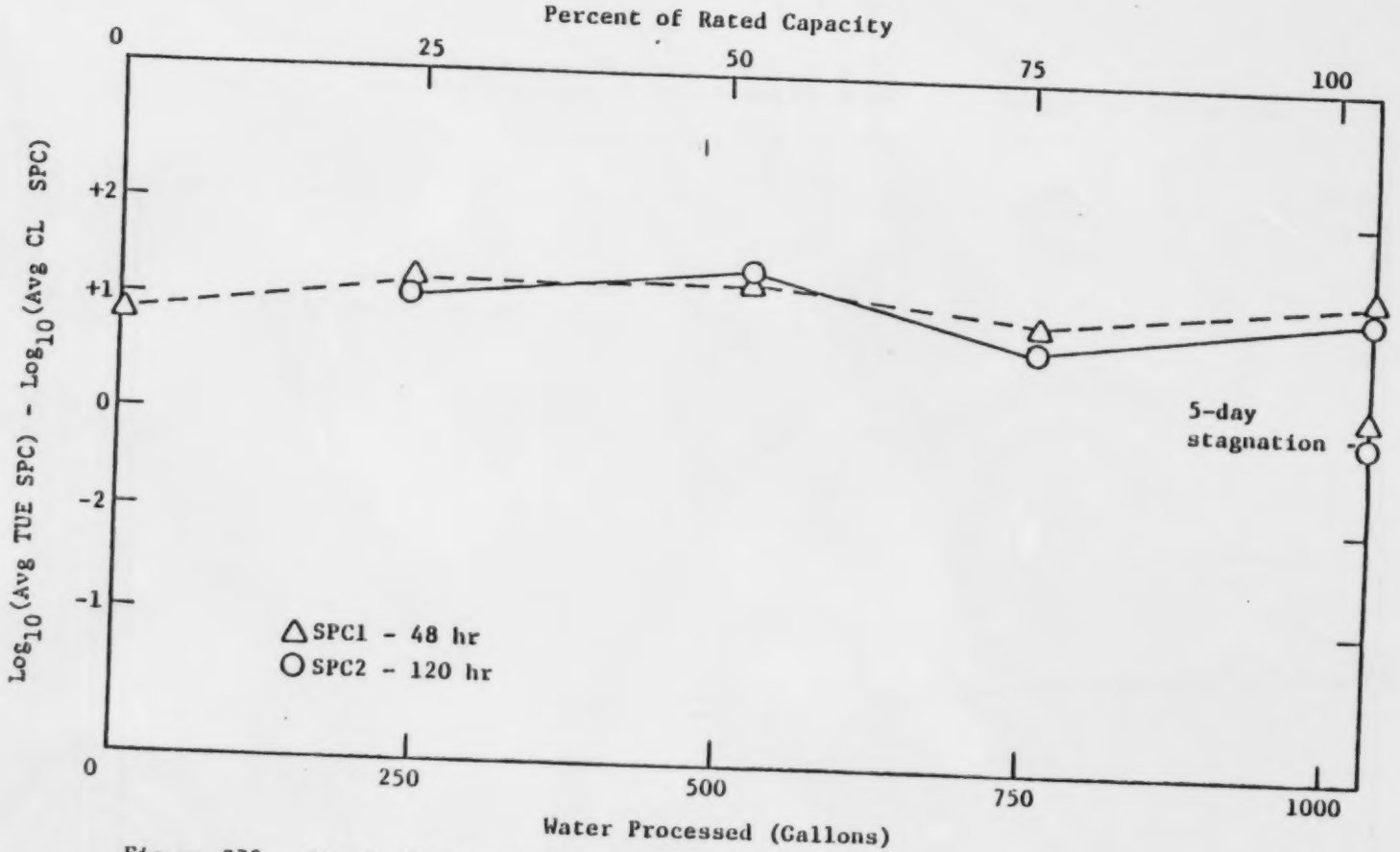

Figure S73. Standard plate count levels versus water consumption for the Water Washer, model 1000 unit.

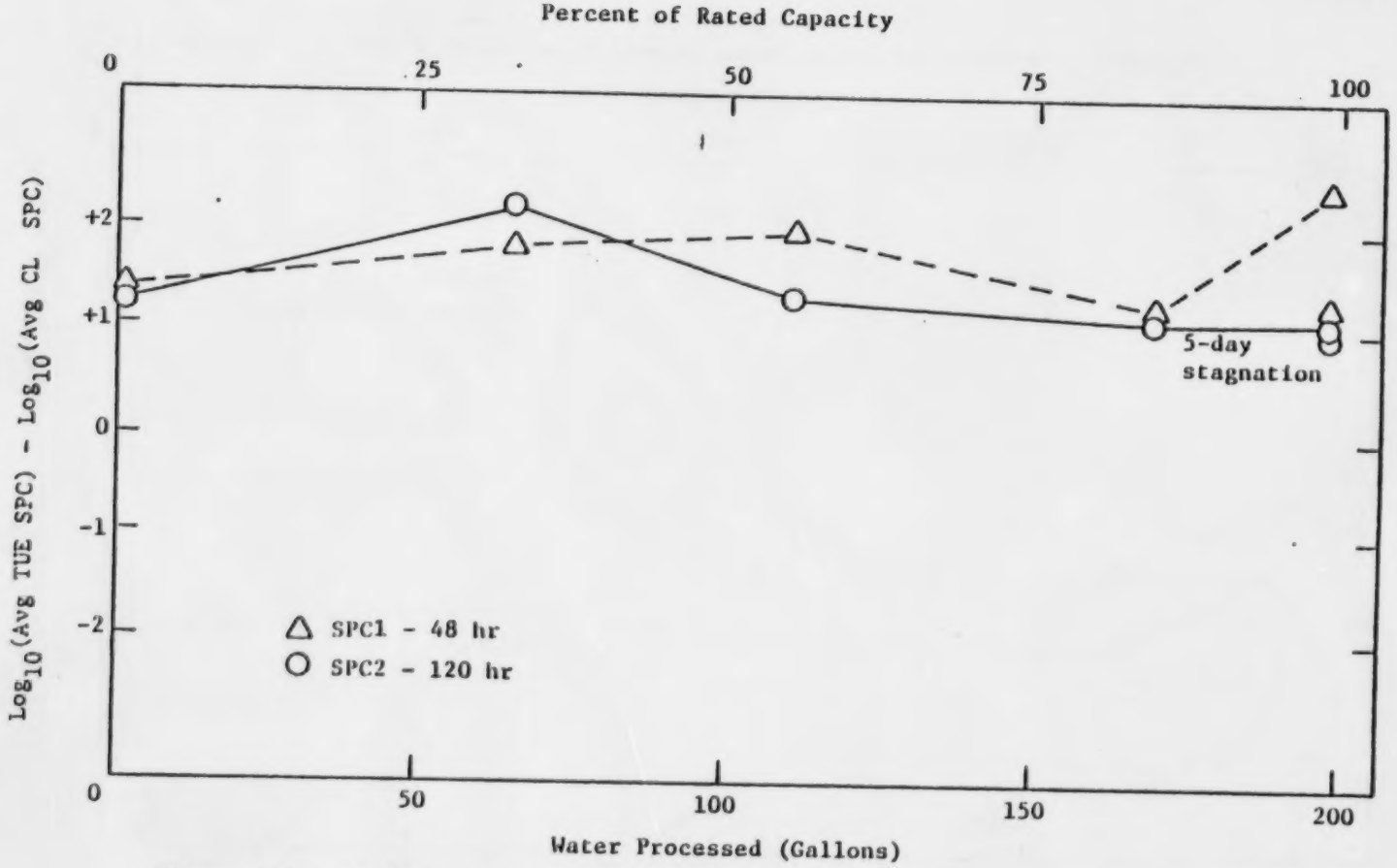

Figure S74. Standard plate count levels versus water consumption for the Wunderbar Cleaner-Filter unit.

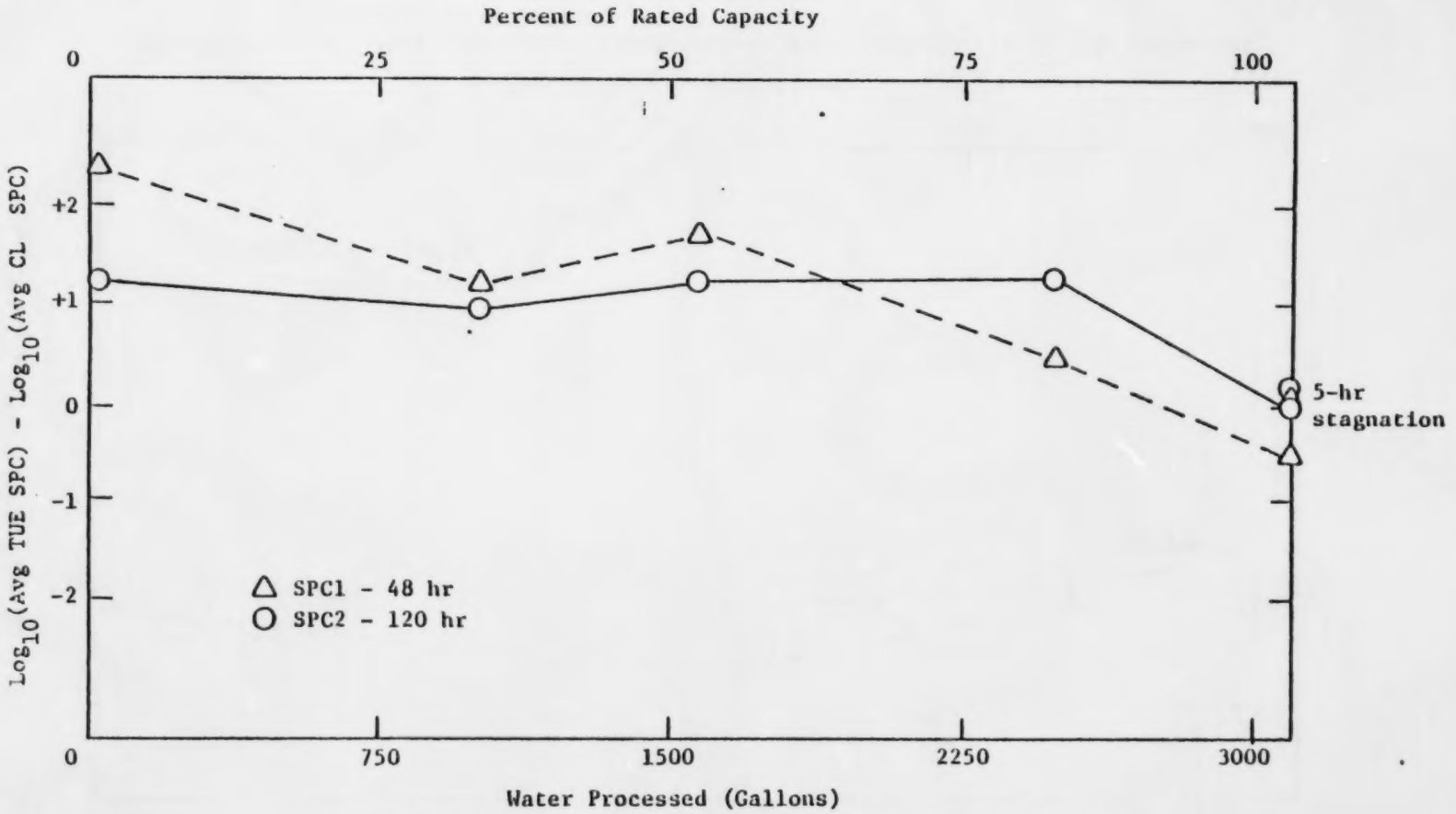

Figure S75. Standard plate count levels versus water consumption for AMF-Cuno, Model 1M unit.

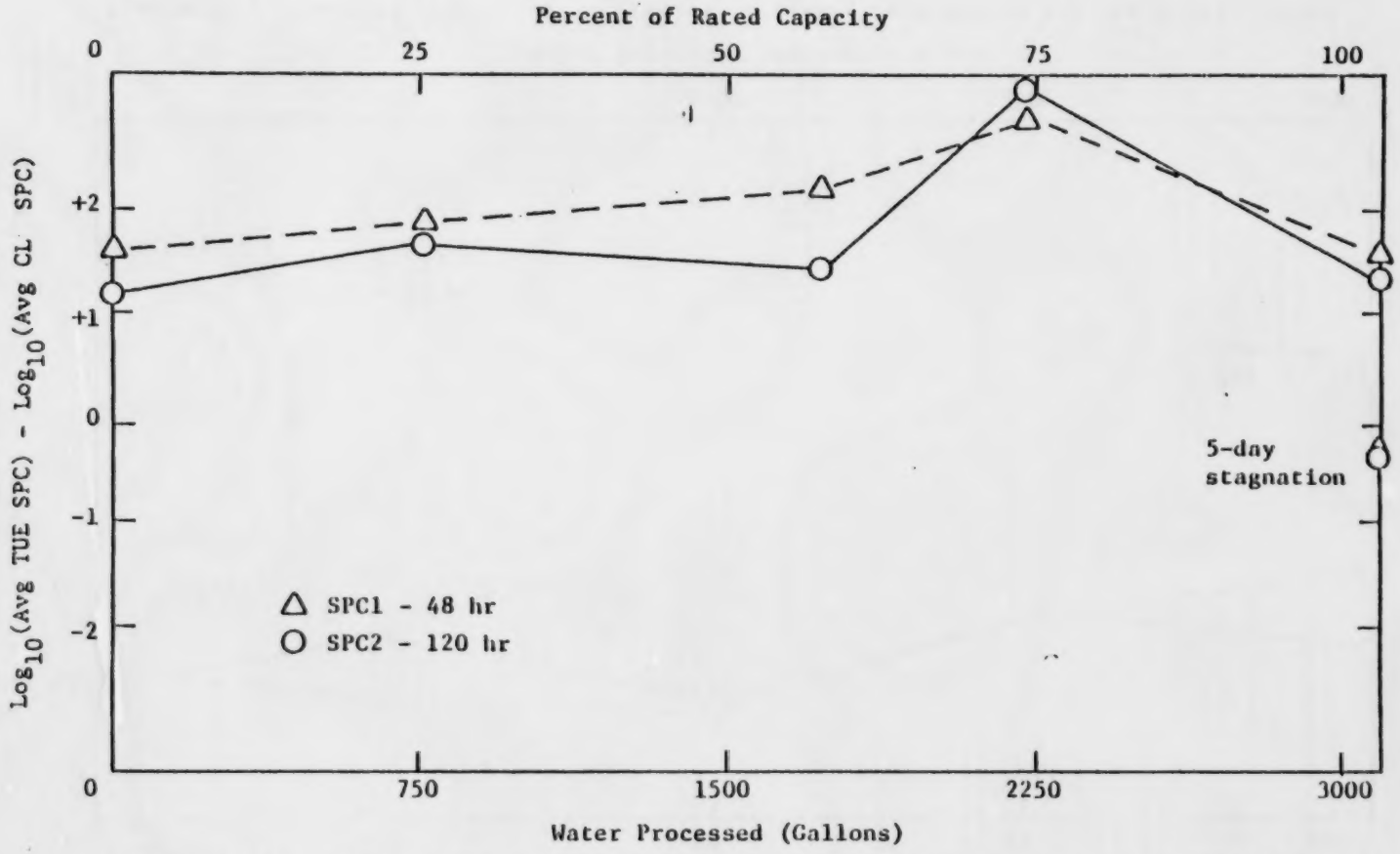

Figure S76. Standard plate count levels versus water consumption for the Filterite, Model 1PC unit.

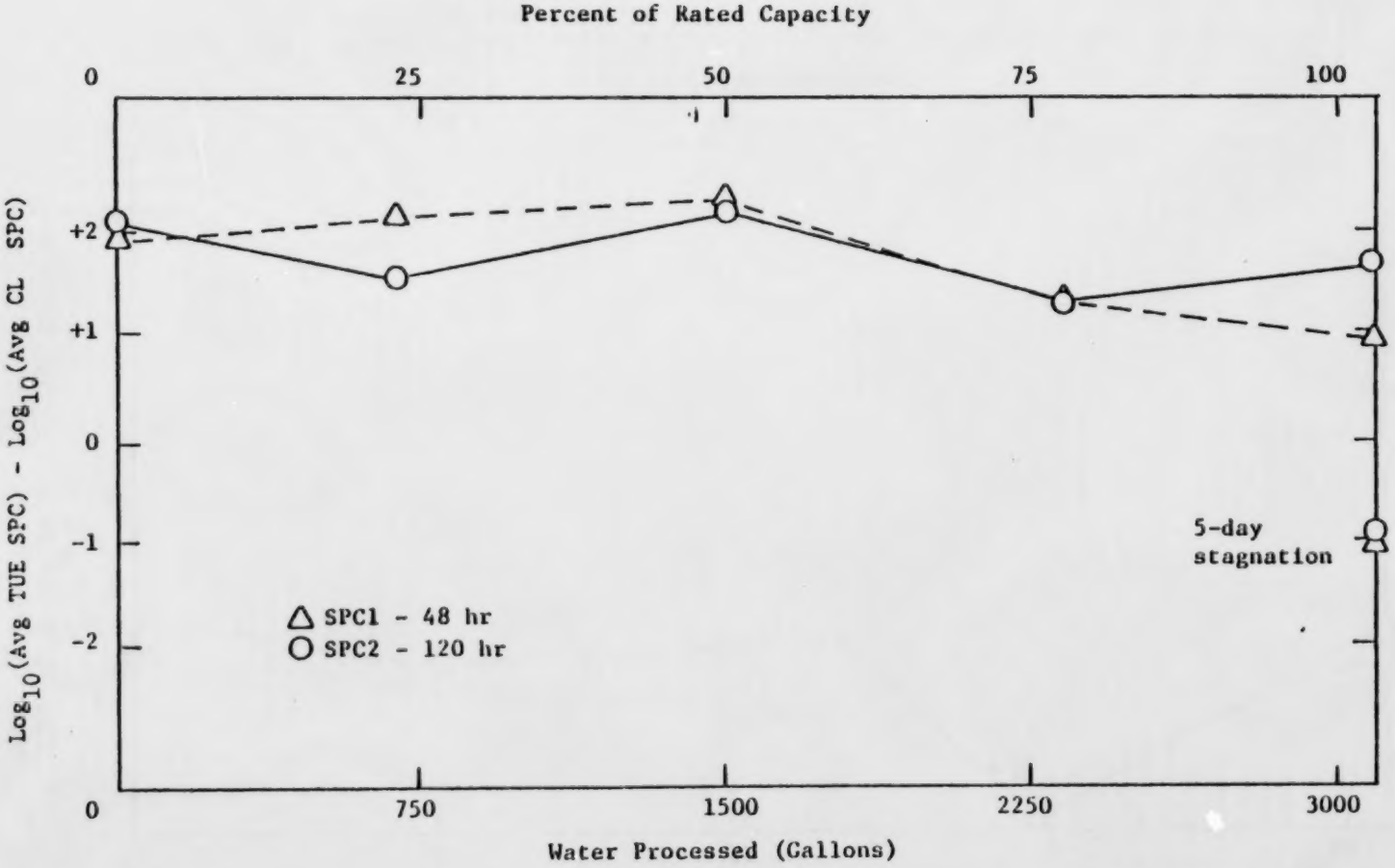

Figure S77. Standard plate count levels versus water consumption for the Fulflo, Model WC-10 unit.

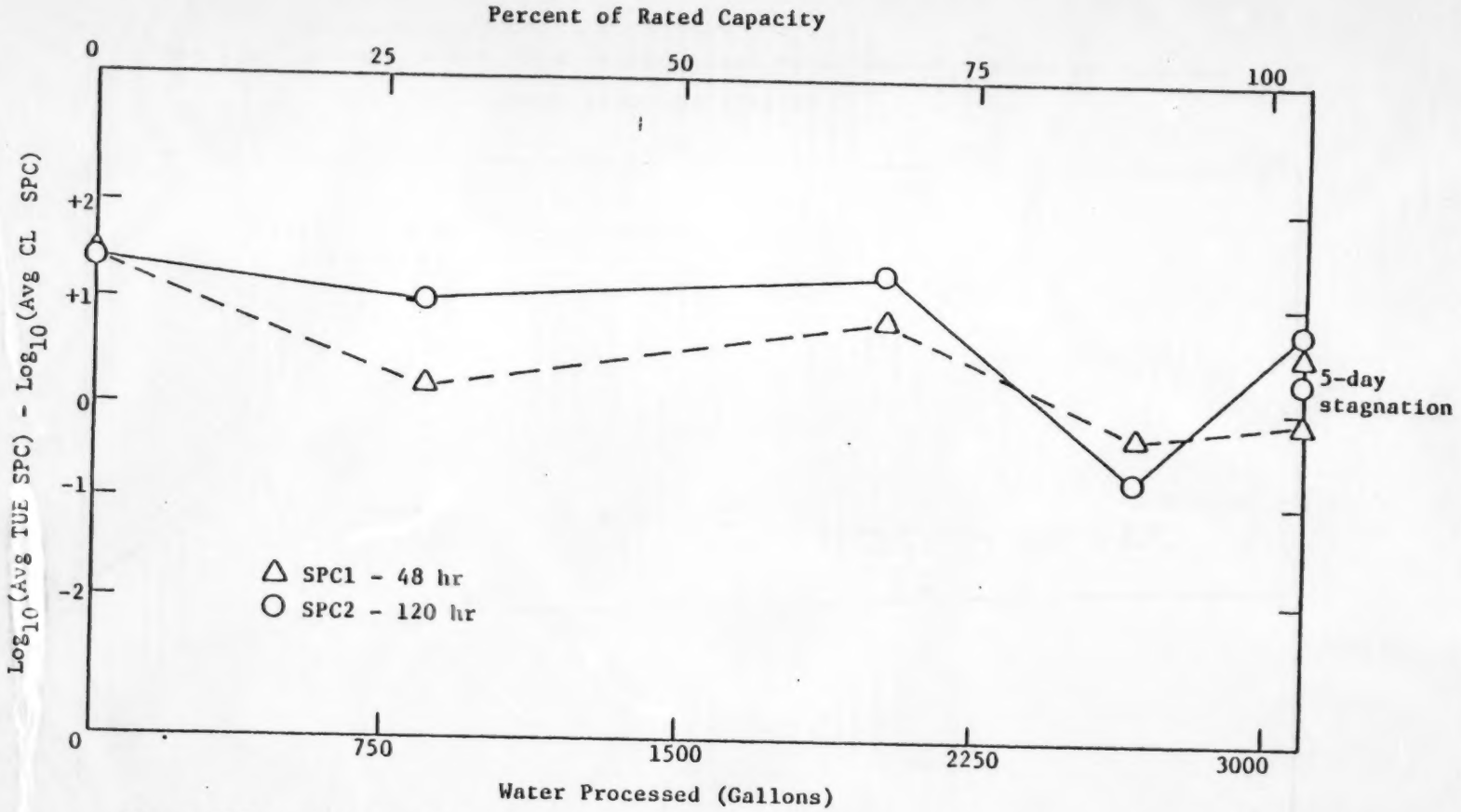

Figure S78. Standard plate count levels versus water consumption for the Keystone, Model 3121 unit.

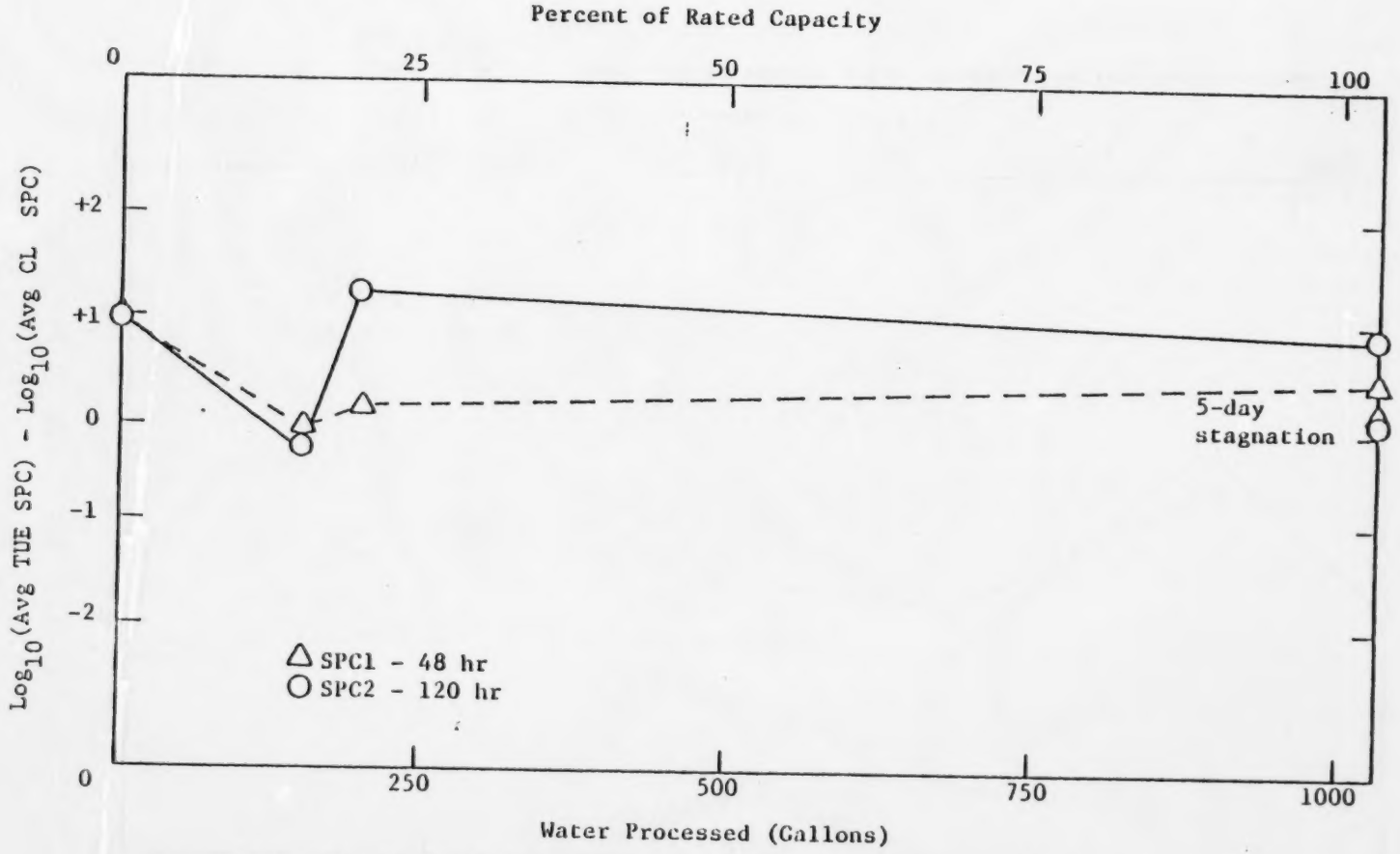

Figure S79. Standard plate count levels versus water consumption for the Filbrook Pour-thru unit.

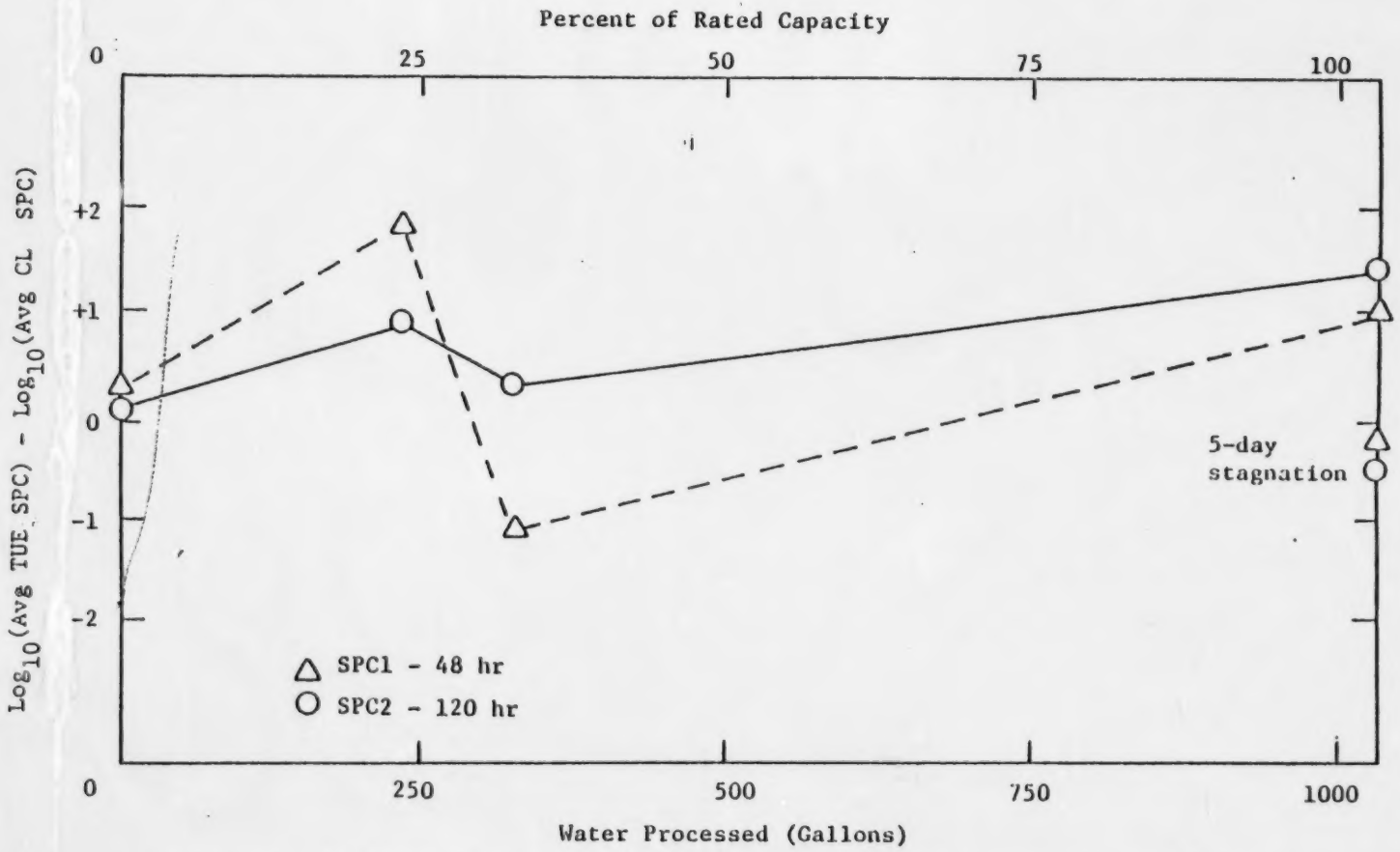

Figure S80. Standard plate count levels versus water consumption for the Puriton Bacteriostatic unit.